U.S.F.W.S.
SK361
A27Sf
#523

SOUTHEASTERN ALASKA STREAM CATALOG FOR REGULATORY DISTRICT Nos. 5, 6, 7 and 8

by Carl Rosier, Norm Johnston, and Russell F. Orrell

LIBRARY
JAN 9 1966
FISH & WILDLIFE SERVICE

SPECIAL SCIENTIFIC REPORT-FISHERIES No. 523

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES

This work was financed by the Bureau of Commercial Fisheries under Contract No. 14-17-0005-24, with funds made available under the Act of July 1, 1954 (68 Stat. 376), commonly known as the Saltonstall-Kennedy Act.

UNITED STATES DEPARTMENT OF THE INTERIOR

Stewart L. Udall, *Secretary*

John A. Carver, Jr., *Under Secretary*

Stanley A. Cain, *Assistant Secretary for Fish and Wildlife*

FISH AND WILDLIFE SERVICE, Clarence F. Pautzke, *Commissioner*

BUREAU OF COMMERCIAL FISHERIES, Donald L. McKernan, *Director*

STREAM CATALOG OF SOUTHEASTERN ALASKA

REGULATORY DISTRICTS NOS. 5, 6, 7, and 8

Edited by

Carl Rosier, Norm Johnston
and Russel F. Orrell

Contribution No. 193, College of Fisheries
University of Washington

United States Fish and Wildlife Service
Special Scientific Report--Fisheries No. 523

Washington, D. C.

August 1965

CONTENTS

	Page
Abstract	1
Introduction	1
Sources of data	2
Limitations of data	2
Escapement estimates	2
Physical observations	3
Explanation of catalog format	3
Stream designations	3
Intertidal zone	5
Upstream	6
Escapement record	6
Weir record	6
Mapping symbols	7
Alphabetical index of salmon streams	8
Numerical index of salmon streams	11
Regulatory District indexes of salmon streams	14
Map of stream locations	19
Map of Regulatory Districts Nos. 5, 6, 7, and 8	20
Stream descriptions	21

STREAM CATALOG OF SOUTHEASTERN ALASKA REGULATORY DISTRICTS NOS. 5, 6, 7, and 8 [1/]

Edited by
Carl Rosier and Norm Johnston
Alaska Department of Fish and Game
Juneau, Alaska
and
Russell F. Orrell
Fisheries Research Institute
University of Washington
Seattle, Washington

ABSTRACT

Information about part of Southeastern Alaska salmon streams is cataloged from the voluminous records of the Alaska Department of Fish and Game; the Alaska Salmon Industry; the Fisheries Research Institute of the University of Washington; the U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries; and other agencies. Stream descriptions, maps, and historical records of salmon escapement data are compiled for 130 salmon streams in Southeastern Alaska Regulatory Districts Nos. 5, 6, 7, and 8. Each stream is located geographically by latitude and longitude and by orientation to prominent landmasses. A standard numbering system, number designations formerly in use, and common names of each stream are listed. Physical descriptions are presented for the intertidal zone and the upstream area of each stream. Available records of weather, water temperatures, and information useful to ground and aerial stream surveyors are presented in brief form. The species of salmon utilizing the spawning grounds and estimates of the escapements each year for many years are given.

INTRODUCTION

The pink salmon of Southeastern Alaska are an important fishery resource. Millions of these fish are captured annually by the commercial fishery during their spawning migration. There are more than 1,100 known spawning streams, plus hundreds of small, individually unimportant ones, scattered along the 9,000 coastal miles of Southeastern Alaska.

For many years, management and research agencies of the Federal, Territorial, and State governments, Alaska salmon canners, and the Fisheries Research Institute of the University of Washington, have independently conducted stream surveys of the salmon spawning grounds. A vast amount of valuable information has been accumulated and has been, in the main, kept on file in the offices of the various organizations.

To make full use of all these scattered materials, records from the various sources have been gathered together and methods of stream surveying have been studied on a comparative basis. This information has been consolidated into a standard form which is presented here as a stream catalog.

This catalog has been compiled under a contract given to the Fisheries Research Institute by the United States Fish and Wildlife Service. The material contained herein includes 130 major and numerous minor streams of Regulatory Districts Nos. 5, 6, 7, and 8.

Information on each stream is presented by a stream description and, when available, a map, and escapement record. Information pertinent to the identification of each stream by name, number, and location is given, and further physical features are described where necessary for positive identification. Descriptions of each stream are given as completely as available information allows. The catalog format is so designed that future surveys by various agencies can be recorded and conducted according to a uniform style.

As a handbook of salmon streams, this catalog is expected to serve as an aid to conservation

---

1/Contribution No. 193, College of Fisheries, University of Washington, Seattle, Wash. It is the fourth catalog of salmon streams of Southeastern Alaska. Previous catalogs cover areas as follows: Reg. Dist. No. 1, SSR--F 305; Reg. Dist. No. 2, SSR--F 453; Reg. Dist. Nos. 3 and 4, SSR--F 465.

agencies as well as others who have an interest in the valuable salmon resource of Southeastern Alaska.

SOURCES OF DATA

The information compiled in this catalog is derived from a number of sources, both in and outside of the field of fishery work. A complete list of these sources is given below.

Alaska Department of Fish and Game. Valuable stream and escapement information is available in reports by research and management personnel.

Alaska Salmon Industry. Surveys (made by individual members of the industry) are among some of the earliest records available.

Fisheries Research Institute. Records are available for each year starting with 1947. Many of the Institute research projects have been concerned with precise measurements of physical factors. Data from these projects provide some of the stream descriptions and escapement estimates included in this catalog. In 1950 and 1951 the Institute assembled a stream catalog for Southeastern Alaska with all the information then available. It has served as a guide for the present catalog.

U. S. Coast and Geodetic Survey. Charts used throughout the catalog for standardization of stream location coordinates are from this source. A number of large-scale charts have provided intertidal zone information. The U. S. Coast Pilot (1952, Southeast Alaska, Dixon Entrance to Yakutat Bay, Tenth Edition, 544 p. plus charts) is the source of information on vessel approaches to stream mouths and the authority for spelling of proper names.

U. S. Fish and Wildlife Service. District catalogs of this agency are a major source of stream physical data and salmon escapement records. Escapement records from the streams where weirs were operated are actual counts. The FWS stream numbering system is the basis for the numbering system used in this catalog. Information on some of the large mainland streams with headwaters in Canada was obtained from the Canadian government by the U. S. Fish and Wildlife Service.

U. S. Federal Power Commission. The report, Water Power of Southeastern Alaska, 1947, published with the cooperation of the U. S. Forest Service, provides discharge rates and stream drainage areas, and other information about a number of important salmon streams.

U. S. Forest Service. Data on stream characteristics and salmon escapements are available on several streams in records of studies conducted by this agency on the effects of logging on the physical makeup of streams.

U. S. Geological Survey. Aerial photographs from this agency are the primary source for measurements of stream distances and areas and for valley features not visible from the ground. These photographs, which are of most of the streams in Southeastern Alaska, were made by the U. S. Navy (Patrol Squadron Four) in 1948.

Local residents. Another source is the descriptive information on several major streams provided by local residents.

LIMITATIONS OF DATA

Escapement estimates obtained by visual means are often limited in accuracy because fish are not seen in turbid water, under overhanging streambanks, or in areas inaccessible to observers. Actual counts throughout the duration of the salmon run past a counting weir or tower are relatively accurate estimates of total escapement. However, it is not economically feasible to establish a weir on each stream, and escapement surveys are the only source of information for a large part of the area which must be covered. The value of the catalog as a history of the salmon escapements can be realized only if its limitations are fully known.

Escapement Estimates

Escapement estimates do not indicate the actual total escapement. At no time are all the salmon in the stream simultaneously, since the spawning run extends over a period of weeks. Therefore, each escapement estimate is an index of the relative abundance at the time of survey.

The maximum estimate determined by survey methods at about the peak of the run is used as an estimate of the relative abundance of the total escapement. Reliable indices of relative abundance from year to year can be made only if the surveys are comparable. Evaluation of the following factors is necessary to determine the accuracy of the escapement estimates.

Observers. --The escapement records are from many different observers. Variability in estimating the number of salmon in a given area by different observers should be considered in judging

the accuracy of the data. In general, with more observers variability increases.

Survey systems. --Different survey systems have been used by the various agencies. Reliability of the escapement estimates varies with the systems used.

Survey systems that employ standard counting techniques over standard distances are the most reliable method now available for comparison of abundance between years, particularly when streams can be only partially covered. Standard survey distances in comparatively long streams were not widely used prior to 1949.

Survey systems requiring periodic visits to each stream during the spawning period are more reliable for estimates of peak abundance than systems requiring only one or two visits. The peak period of abundance in a salmon stream is usually relatively short, and one or two visits may miss the peak.

Type of survey. --Two basic methods for covering the streams during escapement surveys are being used.

The oldest method is the ground survey in which the observer follows the stream course on foot or in a skiff with an outboard motor. Most parts of the stream can be closely observed by this type of survey.

The newer method is aerial survey. This is a fast, economical means of covering a large number of streams in a short period of time over stream distances greater than is possible on the ground. This method requires experienced personnel familiar with ground surveys as well.

Aerial surveys are best suited for large rivers and streams where ground coverage is limited usually to the lower portion of the stream near the banks. Ground surveys are more reliable than aerial surveys on small streams that offer poor visibility from the air.

Observation conditions. --Weather is an extremely important factor in the reliability of escapement estimates. During flooding, ground surveys can be made only with great difficulty. Visibility is also greatly reduced because of turbid water. Any estimate made during years that had heavy rains of long duration during the peaks of spawning runs is not comparable with an estimate made during normal water levels.

Streams in which intertidal spawning predominates may present difficult observation conditions at high tide. Spawning salmon in the intertidal zone behave differently when the spawning areas are flooded by the high tide.

Aerial observations vary with the different types of aircraft used. Observations made from small light planes capable of following winding stream courses are more reliable than those made from larger planes which must fly at considerable height above the stream and generally at greater speeds.

Physical Observations

Observations of the characteristics of each stream by different observers have been recorded with varying degrees of accuracy. Many details of stream descriptions are dependent upon the individual observer's ability and knowledge.

Many stream dimensions are merely estimates. Instruments for measurements were usually not available to observers, and pacing and estimating were used.

Most basic stream distances have been taken from aerial photographs and are relatively accurate. However, some errors may have occurred where reference points were difficult to identify. Drainage estimates were based on compensating polar planimeter measurements of valley areas, but occasionally drainage divides were difficult to distinguish and the areas given are only approximate.

EXPLANATION OF CATALOG FORMAT

Further descriptions of the data such as estimates of timing, temperature ranges, spawning facilities, etc., are included under these specific headings in the explanation of the catalog format that follows:

Stream Designations

Statistical area number. --The number used by the Alaska Department of Fish and Game to designate the statistical area is given in the upper left side of the heading.

Stream name. --This appears in the center of the first line of the heading. Recorded names or common local names are used when available. Otherwise unnamed streams of importance are given descriptive names corresponding to location or other distinguishing features. Some streams have identical

names; they are retained without change because of local usage. Many minor streams have no names; hence they are identified only by number.

Stream number. --This number appears on the right side of the first line of the heading. The letter preceding the number designates the administrative district in Southeastern Alaska: e. g., "WR" for Wrangell. Continuity of stream numbers along a shoreline is followed where practical. Because of the numerous islands, breaks in the sequence have been necessary. Nonhyphenated numbers designate major or important streams. A catalog number which includes a hyphenated number designates a tributary to the stream of the same number. A catalog number combining numbers and letters designates a minor stream, either adjacent to or between major streams numbered in sequence. For example, stream number 76A is a minor stream adjacent to major stream number 76.

ADF Statistical number. --A space for the new ADF Statistical number is provided for use when the new numbers are assigned.

Latitude and longitude. --This appears on the second line, left side, of the heading. Location of streams is given by the use of "N" for north latitude, and "W" for west longitude, stated in degrees (°), and minutes and tenths of minutes (').
Location of the high tide point on the stream is given for positive identification.

Previous number. --This appears on the second line, right side, of the heading. Stream number or numbers used in the past by Fish and Wildlife Service are given for positive identification of old stream records.

Geographic location. --This appears on the third line of the heading. Each stream location is described by the administrative district, major channel, bay or inlet, arm or cove, and location within the smallest division given by direction (from true north) and distance (nautical miles).

Major species. --Included are those species of salmon which furnish the bulk of spawning in the stream. Where more than one dominates, both (or more) are included.

Other species. --This indicates other known species of salmon and trout using the stream.

Escapement timing. --The timing is based on systematic stream survey records, which include a number of years of surveys with visits before, near, and after the peaks of abundance. Extensive stream temperature studies were made on most of these surveys. The earliest runs of salmon occur along the colder mainland streams. The latest runs are in the outer channel and coastal areas where stream levels are dependent upon rainfall. An intermediate timing of the runs occurs in the region lying between the mainland and outer coastal areas. Three major time divisions are used to indicate the peak period that the major species are found in the stream. "Early" designates peaks before August 15; "middle," peaks between August 15 and September 15; "late," peaks after September 15. The range of time in which the major species are found in the streams is given by months.

Escapement magnitude. --These are estimates of the total escapement, based on stream counts of the peak abundance of salmon, multiplied by a certain factor. This factor was determined from stream tagging experiments at Herman Creek in 1953 by the Fisheries Research Institute, who found the total escapement was between two and three times the peak count. The range of the escapement magnitude is given in thousands.

Spawning facilities. --This includes a general classification rating of poor, fair, good, excellent, etc. The rating is based on estimates made by various individuals.

Stream temperatures. --In this classification the following general ranges are used for each stream. Each range is for the 3-month period (July, August, and September) in which most of the salmon spawning migrations occur:

Cold-range, averaging less than 50° F., usually an early-run stream.

Normal-range, averaging between 50° and 55° F., usually a middle-run stream.

Warm-range, averaging over 55° F., usually a late-run stream.

These ranges generally correspond to the geographic location of the stream and times of the runs. Where only limited temperature information is available for a stream, the range has been estimated from its location and timing of run. Cold-range streams are usually found along the mainland or on the larger islands in the northern part of Southeastern Alaska. Warm-range streams are usually found along the outer channels and coastal

areas, which are dependent upon precipitation as the primary source of supply. The normal-range streams appear to fall geographically between and may combine characteristics of both cold- and warm-range streams. Timing of the salmon runs, especially pink salmon, also follows the geographic distribution outlined above. Recording thermograph data, available from a number of streams with known escapement timing, have been used as a basis for comparison.

Valley description. --Glacial, stream-cut, etc., describe valley origin with a general description of the outstanding features such as length, width, timber, slopes, directions, etc. They have been obtained from aerial photographs and by direct observations.

Drainage area. --This has been either estimated in square miles or computed with a polar planimeter from aerial photographs. Estimates of the drainage area of large systems have been taken from the small-scale, key, composite photographs and are less reliable. Data from Water Power of Southeastern Alaska 1947 are included when available. Descriptions are given of supply sources, drainage topography, and characteristics governing water quality and temperature ranges during spawning from the editor's interpretation of aerial photos and local knowledge.

Stream mouth identification. --This is a description of some general features visible at the stream mouth.

Anchorage. --Descriptions of temporary anchorages which have been used for short stops by stream survey vessels are given. Overnight and storm anchorages are given in the U. S. Coast Pilot.

Trails and survey routes. --These include descriptions of trails that have been used by ground parties on stream surveys. Where other than the streambed was used, a description of routes is given, including difficult points, identification, outstanding features, presence of brown bears, etc. Reference to right or left bank is made while facing in the direction of the current.

Aerial survey notes. --The notes include remarks from various individual observations on the visibility in each stream and the conditions considered necessary for adequate observations. Approaches to valley, starting points, and any known hazards are described from aerial surveyor's notes and the editor's knowledge of the area.

Intertidal Zone

Length. --The distance is given in miles from mean high to mean low tide, obtained from aerial photographs measured to the nearest tenth of a mile. Where low tide locations were not known the measurement was made from the edge of tidal flats visible in the photographs.

Average width. --These are estimates in feet, based on observations by various individuals.

Average depth. --These are estimates in inches, or in feet in larger systems, based on observation by various individuals.

Gradient. --Estimates are in degrees from horizontal, based on observation by various individuals.

Velocity. --Estimates are in feet per second during normal water levels, based on observation by various individuals.

Bottom. --A description is given of the composition such as gravel (range from 1/4 inch to over 5 inches in diameter, arbitrary division point), mud, silt, organic materials, broken and water-washed rock, boulders, large rocks, bedrock, etc., according to observation by various individuals.

Low tide location. --The location of the mean low tide point is an approximation and is given only where it falls near good identification points, usually found in restricted stream outlets.

High tide location. --The mean high tide location generally has been found to correspond to the tree line. Other methods of locating the high tides, such as markers, are described when present.

Salmon schooling areas. --The areas are usually found near high tide where pools often occur. The areas are described with reference to the mean high tidemark. Annual variations in streambeds may alter locations of schooling areas.

Spawning areas. --Major areas are described with reference to the high tidemark. Location may change with change in stream conditions.

General notes. --This includes notes pertinent to the intertidal stream that are of interest and importance in the description of runs.

Upstream

Length accessible. --The length given in miles was measured from aerial photographs along the course of the stream to the known upper limits of salmon migration. Where barriers restrict major species but allow more vigorous species to pass, secondary species limits are given under "Barriers."

Gradient. --Slope was estimated in degrees from horizontal, based on observation by various individuals.

Velocity. --It is in feet per second during normal water levels and is an estimate from observation by various individuals.

Bottom. --A description is given whether gravel (range from 1/4 inch to over 5 inches in diameter, arbitrary division point), mud, silt, organic materials, broken and water-washed rock, boulders, bedrock, etc., are present, from observation by various individuals.

Marker distance. --Distance is given in miles along stream course to standard termination point for salmon counting.

Marker identification. --Descriptions of an artificial marker or of identification feature marking termination point for salmon spawning surveys is given.

Barriers. --Distance and location above high tide point to known barriers, both passable and impassable, are listed. Descriptions are also given when available.

Tributaries. --Tributaries used by spawning salmon are listed by distance from the mouth of the main stream, by direction, and by importance. Tributaries not used by salmon, but numerous, are mentioned under "Drainage."

Salmon schooling areas. --Based on survey records, major salmon schooling areas are listed where specific locations have been observed for an individual stream.

Spawning areas. --Major areas are described by distance above high tide or from a reference point in the stream.

General notes. --The notes include data pertinent to the upstream areas that are of interest and importance in the description of salmon escapements.

Escapement Record

Statistical area number. --The number used by the Alaska Department of Fish and Game to designate the statistical areas is given on the upper left side of the heading.

Stream name. --This appears in the center of the first line of the heading.

Stream number. --The new and old numbers appear on the right side of the first line of the heading on the first page of the escapement record.

Date surveyed. --Surveys are listed chronologically.

Miles surveyed. --Distances are given as measured along stream courses to the termination point of the regular survey. Ground surveys are designated by "G" and aerial surveys by "A." These symbols precede miles surveyed.

Surveyed by. --Initials of surveying organizations are listed as follows: Alaska Department of Fish and Game, ADF; Alaska Salmon Industry, ASI; Fisheries Research Institute, FRI; U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries, FWS; and U. S. Forest Service, USFS.

Pinks, chums, other species. --Abundance of salmon observed during surveys is given as a numerical estimate. Estimates of secondary species are usually less reliable than those for the primary species. Estimates of dead salmon of all species usually are very general, having been based on the percentage of the count.

Remarks. --Adjective ratings are given first when available. The ratings range from poor to excellent and describe the abundance of salmon for the surveyed date only. They do not indicate seasonal escapement abundance. Other notes entered in this column include survey conditions, behavior and distribution of salmon, and salmon observations beyond stated survey distances.

Weir Record

Salmon escapement counts made by weirs operated by the U. S. Fish and Wildlife Service and the Alaska Department of Fish and Game follow Escapement Record when available.

MAPPING SYMBOLS

North

LANDFORMS

Bank

Bedrock

Boulders

Canyon

Dry Channel

Glacier

Gorge

Gravel

Hill
Low or Rolling Grade

Steep Grade

Ridge

Sand (bar)

MARKERS

Fish and Wildlife Limit Marker

Forest Service Trail Marker

HT High Tide Marker

Marker

3 Section Marker

Stream Gage

ROUTES

Railroad

Road

Trail (type designated)

STRUCTURES

Beaver Dam

Bridge

Cabin
Instrument Shelter

Cable Crossing

Dam

Pier

Piling

Weir

Windfall

VEGETATION

Brush

Grass

Muskeg

Stump

Trees
Conifers

Deciduous

WATER FORMS

Anchorage

Channel (in sand and gravel)

Falls

f. Fathom

Float

Pool

Rapids

Riffle

Stream Entrance

Tidal Area (sand and gray value)

Water (gray value)

ALPHABETICAL INDEX OF SALMON STREAMS

AARON CREEK, Blake Channel, enters large bay immediately E. of Neptune I.	WR	6	(8)
ALDER CREEK, Sumner Strait, 4.8 miles E. of Point Baker, E. fork	WR	97	(131)
ANAN BAY CREEK, Bradfield Canal, Anan Bay, Head	WR	14	(17)
ANAN CREEK, Bradfield Canal, Humpback Bay, Head	WR	15	(18)
ANDREW CREEK, Frederick Sound, Dry Strait, Stikine River tributary, S. bank, SE. of Limb I.	WR	3-1	(5)
BARRIE CREEK, Sumner Strait, Keku Strait, 2.5 miles N. of Pt. Barrie	WR	65	(90)
BEAR CREEK, El Capitan Passage, Dry Pass, 1 mile E. of entrance to Dry Pass	WR	61	(14)
BIG CREEK, Frederick Sound, 8 miles SE. of Frederick Pt.	WR	52	(69)
BIG CREEK, Sumner Strait, Red Bay, SW. corner	WR	101	(135)
BIG JOHN CREEK, Big John Bay, 3.8 miles from head	E	34A	
BUSTER CREEK, Sumner Strait, 5 miles W. of entrance to Red Bay	WR	98	(132)
CALDER CREEK, Sumner Strait, Shakan Bay, Calder Bay, Head	WR	93	(126)
CASTLE RIVER, Duncan Canal, 3.5 miles W. of N. tip of Big Castle I.	WR	61	(85)
Clarence Strait, Gold and Gilligan Lagoon, entrance to Kashevarof Passage	WR	107	(150)
Clarence Strait, Kashevarof Passage, Whale Passage, S. corner	WR	106	(144)
Clarence Strait, Kashevarof Passage, Exchange Cove, Head	WR		(139)
Clarence Strait, Stikine Strait, 2 miles SW. of NW. tip of Etolin I.	WR	43	(57)
Clarence Strait, Stikine Strait, Meter Bight, 4 miles SW. of S. Craig Pt.	WR	44	(58)
Clarence Strait, Stikine Strait, Meter Bight, 4.5 miles SW. of of S. Craig Pt.	WR	45	(59)
Clarence Strait, Kashevarof Passage, Whale Passage, Neck Lake, 1.5 miles from head	WR		(142)
Clarence Strait, 1 mile N. of Macnamara Pt.	WR	48	(62)
Clarence Strait, McHenry Lake Creek, McHenry Inlet, 0.2 mile from E. head of E. arm	WR	36	(49)
Clarence Strait, Mosman Inlet, 1 mile from head	WR	39	(53)
Clarence Strait, Mosman Inlet, Head	WR	40	(54)
Clarence Strait, Ratz Harbor, Head	WR	110	(156)
Clarence Strait, Salmon Bay, Head	WR	103	(137)
Clarence Strait, Snow Passage, 2.5 miles NW. of Pt. Nesbitt	WR	46	(60)
Clarence Strait, Snow Passage, NE. of Bushy I.	WR	47	(61)
COFFMAN CREEK, Clarence Strait, Kashevarof Passage, Coffman Cove, Head	WR	108	(154)
CRITTENDEN CREEK, Eastern Passage, 1 mile NE. of Babbler Pt., N. of Mill Creek	WR	4	(5)
DOG SALMON CREEK, Zimovia Strait, Anita Bay, N. shore of entrance	WR		(27)
DUNCAN CREEK, Duncan Canal, 2.5 miles NW. of Ohmer Slough	WR	58	(81)
Duncan Canal, Towers Bay, Head	WR	59	(83)
Duncan Canal, 3.5 miles NW. of Indian Pt.	WR	60	(84)
EAGLE RIVER, Bradfield Canal, Eagle Bay, head on S. shore	WR	13	(16)
EAGLE CREEK, Clarence Strait, 1.8 miles S. of Luck Pt.	WR	109	(155)
EAST BRADFIELD RIVER, Bradfield Canal, E. head	WR	12	(15)
EL CAPITAN CREEK, El Capitan Passage, N. end of Passage	WC	60	(16)
El Capitan Passage, S. of El Capitan Creek	WC	64	(15)
El Capitan Passage, opposite Aneskett Pt.	WC	58	(18)

EMERALD CREEK, Ernest Sound, Emerald Bay, Head	WR	20	(24)
Ernest Sound, 1 mile W. of entrance to Canoe Passage	WR	34	(47)
Ernest Sound, Canoe Passage, NW. of Brownson I.	WR	33	(45)
Ernest Sound, Fools Inlet, E. head	WR	24	(32)
FALL CREEK, Wrangell Narrows, 1 mile N. of Rock Pt.	WR	55	(78)
FIVEMILE CREEK, Frederick Sound, W. Sukhoi Islets	E	31D	
FLICKER CREEK, Sumner Strait, 3.8 miles E. of Pt. Baker, S. fork	WR	96	(130)
FOOLS CREEK, Ernest Sound, Fools Inlet, W. head	WR	25	(33)
FRANK'S CREEK, Bradfield Canal, 8 miles from entrance on N. shore	WR	8	(11)
Frederick Sound, Keku Strait, Big John Bay, 2.7 miles from head on E. side	E	34	
Frederick Sound, Dry Strait, 3.5 miles SE. of Cosmos Pt.	WR	53	(72)
Frederick Sound, 2 miles SE. of Frederick Pt.	WR	50	(66)
Frederick Sound, 3 miles SE. of Frederick Pt.	WR	51	(67)
Frederick Sound, Le Conte Bay, SE. corner	WR	2	(3)
FROSTY CREEK, Seward Passage, Frosty Bay, Head	WR	16	(19)
HARDING RIVER, Bradfield Canal, 6.3 miles from head on N. shore	WR	10	(13)
IRISH CREEK, Frederick Sound, Keku Strait, Rocky Pass, opposite High I., E. shore	E	34C	
JAP CREEK, Frederick Sound, Le Conte Bay, 3.5 miles N. of entrance to Le Conte Bay	WR	1	(1)
KAH SHEETS CREEK, Sumner Strait, Kah Sheets Bay, Head	WR	62	(86)
KUDAY'S CREEK, Ernest Sound, 2 miles W. of entrance to Canoe Passage	WR	35	(48)
KUNK (KONKE) CREEK, Zimovia Strait, W. of Nemo Pt.	WR	28	(38)
LOVELESS CREEK, Sumner Strait, Keku Strait, 4 miles N. of Skiff I.	WR	66	(91)
MARBLE CREEK, Sumner Strait, Shakan Bay, 1.5 miles N. of Dry Pass	WR	92	(125)
MARTEN CREEK, Bradfield Canal, 1 mile from entrance on N. shore	WR	7	(10)
McHENRY LAKE CREEK, Clarence Strait, McHenry Inlet, head of E. arm	WR	37	(50)
MENEFEE CREEK, Ernest Sound, Menefee Inlet, Head	WR	32	(44)
MILL CREEK, Eastern Passage, N. side, 5 miles from Pt. Madan	WR	5	(6)
MUDDY RIVER, Frederick Sound, S. of Pt. Agassiz	E	7A	
NAVY CREEK, Clarence Strait, Burnett Inlet, 2 miles NE. of Isle Pt.	WR	38	(52)
NORTH ARM CREEK, Clarence Strait, Stikine River, 1 mile NE. of Farm I., N. shore	WR	3-2	(FWS 4)
NORTH BRADFIELD RIVER, Bradfield Canal, N. head	WR	11	(14)
OHMER CREEK, Duncan Canal, Ohmer Slough, Head	WR	57	(80)
PETERSBURG CREEK, Wrangell Narrows, NW. of Bayou Pt.	WR	56	(79)
PINE CREEK, Sumner Strait, Red Bay, 0.7 mile S. of Pine Pt.	WR	102	(136)
PORCUPINE CREEK, Clarence Strait, Steamer Bay, Head	WR	42	(56)
SANTA ANNA CREEK, Seward Passage, Santa Anna Inlet, Head	WR	17	(20)
Seward Passage, 1.5 miles E. of Watkins Pt.	WR	19	(22)
SHIPLEY CREEK, Sumner Strait, Shipley Bay, NE. corner of bay	WR	91	(118)
SMITH CREEK, Shakan Strait, 0.5 mile SW. of entrance to Dry Pass	WC	63	(13)
SNAKE CREEK, Zimovia Strait, Olive Cove, Head	WR	31	(42)
SOUTHEAST CREEK, Clarence Strait, Ernest Sound, Southeast Cove, Head	WR	26	(34)
SQUAW CREEK, Clarence Strait, Kashevarof Passage, Whale Passage, on inlet N. of W. side of Thorne I.	WR	104	(140)
ST. JOHN CREEK, Sumner Strait, Pt. St. John, Head	WR	49	(64)
STREETS LAKE CREEK, Clarence Strait, Rocky Bay, Head	WR	41	(55)

Sumner Strait, Eastern Passage, in cove 2 miles SE. of Channel I.	WR	23	(31)
Sumner Strait, Affleck Canal, head NW. corner	WR	85	(110)
Sumner Strait, Affleck Canal, Bear Harbor, head of N. arm	WR	86	(111)
Sumner Strait, Affleck Canal, 10.5 miles S. of head of Affleck Canal, E. shore	WR	84	(109)
Sumner Strait, Affleck Canal, 2.5 miles from head on W. shore	WR		
Sumner Strait, Affleck Canal, Kell Bay, head of N. arm	WR	88	(113)
Sumner Strait, Alvin Bay, Head	WR	73	(99)
Sumner Strait, Alvin Bay, 0.5 mile from head on N. shore	WR	73A	(99-)
Sumner Strait, Blind Slough, head of N. arm	WR	54	(73)
Sumner Strait, Hole in the Wall, Head	WR	94	(128)
Sumner Strait, Pt. Beauclerc, head of N. arm	WR	78	(104)
Sumner Strait, Pt. Beauclerc, 2 miles S. of head on N. arm	WR	79	(105)
Sumner Strait, Pt. Beauclerc, 2.5 miles S. of head on N. arm	WR	79A	
Sumner Strait, Pt. Beauclerc, 4 miles S. of head on N. arm	WR	80	(106)
Sumner Strait, Pt. Beauclerc, head of S. arm	WR	81	(107)
Sumner Strait, Pt. Beauclerc, S. of SE. tip of Edwards I.	WR	82	
Sumner Strait, Louise Cove, 2 miles W. of Pt. Amelius	WR	83	(108)
Sumner Strait, Pt. Beauclerc, 2.3 miles from entrance on N. shore	WR	77	(103)
Sumner Strait, Port Protection, head of S. arm	WR	95	(129)
Sumner Strait, 1 mile S. of entrance to No Name Bay	WR	72	(98)
Sumner Strait, 4 miles W. of entrance to Red Bay	WR	99	(133)
Sumner Strait, Red Bay, SW. corner	WR	100	(134)
Sumner Strait, Reid Bay, head of N. arm	WR	74	
Sumner Strait, Reid Bay, 0.2 mile from head of N. arm on W. shore	WR	74A	
Sumner Strait, Reid Bay, in bight 1.5 miles S. of head of N. arm	WR	75	(100)
Sumner Strait, Reid Bay, in bight 1.6 miles S. of head of N. arm	WR	75A	(100-)
Sumner Strait, Reid Bay, head of W. arm	WR	76	(101)
Sumner Strait, Reid Bay, 0.1 mile N. of head of W. arm from head	WR	76A	(101-)
Sumner Strait, Seclusion Harbor, Salt Lagoon, Head	WR	71	(96)
Sumner Strait, Shipley Bay, in cove 2 miles from head of bay	WR	90	(117)
Sumner Strait, Threemile Arm, in cove 5 miles E. of head	WR	68	(93)
Sumner Strait, Threemile Arm, Head	WR	69	(94)
Sumner Strait, Totem Bay, Head	WR	64	(89)
SUNNY CREEK, Seward Passage, Sunny Bay, Head	WR	18	(21)
SUTTER CREEK, Shakan Strait, 2 miles SW. of entrance of Dry Pass	WC	62	(12)
THOMS CREEK, Zimovia Strait, Thoms Place, Head	WR	27	(35)
TOM CREEK, Bradfield Canal, 9.5 miles from entrance on N. shore	WR	9	(12)
TOTEM CREEK, Sumner Strait, Totem Bay, 3 miles E. of head	WR	63	(88)
TROUT CREEK, Sumner Strait, 1.8 miles S. of Ruins Pt.	WR	89	(116)
TUNEHEAN CREEK, Sumner Strait, Keku Strait, 2 miles S. of Devils Elbow	WR	67	(92)
VIXEN CREEK, Ernest Sound, Vixen Inlet, Head	WR	22	(26)
WHALE PASS, Head, Clarence Strait, Kashevarof Passage	WR	105	(141;108)
WOLF CREEK, El Capitan Passage, N. of Aneskett Pt.	WC	59	(17)
Zimovia Strait, Anita Bay, Head	WR	29	(40)
Zimovia Strait, Anita Bay, W. head	WR	30	(41)

NUMERICAL INDEX OF SALMON STREAMS

WR	1	(1)	JAP CREEK, Frederick Sound, Le Conte Bay, 3.5 miles N. of entrance to Le Conte Bay
WR	2	(3)	Frederick Sound, Le Conte Bay, SE. corner
WR	3-1	(5)	ANDREW CREEK, Frederick Sound, Dry Strait, Stikine River tributary S. bank, SE. of Limb I.
WR	3-2	(FWS 4)	NORTH ARM CREEK, Clarence Strait, Stikine River, 1 mile NE. of Farm I., N. shore
WR	4	(5)	CRITTENDEN CREEK, Eastern Passage, 1 mile NE. of Babbler Pt., N. of Mill Creek
WR	5	(6)	MILL CREEK, Eastern Passage, N. side, 5 miles above Pt. Madan
WR	6	(8)	AARON CREEK, Blake Channel, enters large bay immediately E. of Neptune I.
WR	7	(10)	MARTEN CREEK, Bradfield Canal, 1 mile from entrance on N. shore
WR	8	(11)	FRANK'S CREEK, Bradfield Canal, 8 miles from entrance on N. shore
WR	9	(12)	TOM CREEK, Bradfield Canal, 9.5 miles from entrance on N. shore
WR	10	(13)	HARDING RIVER, Bradfield Canal, 6.3 miles from head on N. shore
WR	11	(14)	NORTH BRADFIELD RIVER, Bradfield Canal, N. head
WR	12	(15)	EAST BRADFIELD RIVER, Bradfield Canal, E. head
WR	13	(16)	EAGLE RIVER, Bradfield Canal, Eagle Bay, head on S. shore
WR	14	(17)	ANAN BAY CREEK, Bradfield Canal, Anan Bay, Head
WR	15	(18)	ANAN CREEK, Bradfield Canal, Humpback Bay, Head
WR	16	(19)	FROSTY CREEK, Seward Passage, Frosty Bay, Head
WR	17	(20)	SANTA ANNA CREEK, Seward Passage, Santa Anna Inlet, Head
WR	18	(21)	SUNNY CREEK, Seward Passage, Sunny Bay, Head
WR	19	(22)	Seward Passage, 1.5 miles E. of Watkins Pt.
WR	20	(24)	EMERALD CREEK, Ernest Sound, Emerald Bay, Head
WR	22	(26)	VIXEN CREEK, Ernest Sound, Vixen Inlet, Head
WR	23	(31)	Sumner Strait, Eastern Passage, in cove 2 miles SE. of Channell.
WR	24	(32)	Ernest Sound, Fools Inlet, E. head
WR	25	(33)	FOOLS CREEK, Ernest Sound, Fools Inlet, Head
WR	26	(34)	SOUTHEAST CREEK, Clarence Strait, Ernest Sound, Southeast Cove, Head
WR	27	(35)	THOMS CREEK, Zimovia Strait, Thoms Place, Head
WR	28	(38)	KUNK (KONKE) CREEK, Zimovia Strait, W. of Nemo Pt.
WR	29	(40)	Zimovia Strait, Anita Bay, Head
WR	30	(41)	Zimovia Strait, Anita Bay, W. head
WR	31	(42)	SNAKE CREEK, Zimovia Strait, Olive Cove, Head
WR	32	(44)	MENEFEE CREEK, Ernest Sound, Menefee Inlet, Head
WR	33	(45)	Ernest Sound, Canoe Passage, NW. of Brownson I.
WR	34	(47)	Ernest Sound, 1 mile W. of entrance to Canoe Passage
WR	35	(48)	KUDAY'S CREEK, Ernest Sound, 2 miles W. of entrance to Canoe Passage
WR	36	(49)	Clarence Strait, McHenry Inlet, 0.2 mile from E. head of E. arm
WR	37	(50)	McHENRY LAKE CREEK, Clarence Strait, McHenry Inlet, head of E. arm
WR	38	(52)	NAVY CREEK, Clarence Strait, Burnett Inlet, 2 miles NE. of Isle Pt.
WR	39	(53)	Clarence Strait, Mosman Inlet, 1 mile from head
WR	40	(54)	Clarence Strait, Mosman Inlet, Head
WR	41	(55)	STREETS LAKE CREEK, Clarence Strait, Rocky Bay, Head
WR	42	(56)	PORCUPINE CREEK, Clarence Strait, Steamer Bay, Head
WR	43	(57)	Clarence Strait, Stikine Strait, 2 miles SW. of NW. tip of Etolin I.

WR	44	(58)	Clarence Strait, Stikine Strait, Meter Bight, 4 miles SW. of S. Craig Pt.
WR	45	(59)	Clarence Strait, Stikine Strait, Meter Bight, 4.5 miles SW. of S. Craig Pt.
WR	46	(60)	Clarence Strait, Snow Passage, 2.5 miles NW. of Pt. Nesbitt
WR	47	(61)	Clarence Strait, Snow Passage, NE. of Bushy I.
WR	48	(62)	Clarence Strait, 1 mile N. of Macnamara Pt.
WR	49	(64)	ST. JOHN CREEK, Sumner Strait, Pt. St. John, Head
WR	50	(66)	Frederick Sound, 2 miles SE. of Frederick Pt.
WR	51	(67)	Frederick Sound, 3 miles SE. of Frederick Pt.
WR	52	(69)	BIG CREEK, Frederick Sound, 8 miles SE. of Frederick Pt.
WR	53	(72)	Frederick Sound, Dry Strait, 3.5 miles SE. of Cosmos Pt.
WR	54	(73)	Sumner Strait, Blind Slough, head of N. arm
WR	55	(78)	FALL CREEK, Wrangell Narrows, 1 mile N. of Rock Pt.
WR	56	(79)	PETERSBURG CREEK, Wrangell Narrows, NW. of Bayou Pt.
WR	57	(80)	OHMER CREEK, Duncan Canal, Ohmer Slough, Head
WR	58	(81)	DUNCAN CREEK, Duncan Canal, 2.5 miles NW. of Ohmer Slough
WR	59	(83)	Duncan Canal, Towers Bay, Head
WR	60	(84)	Duncan Canal, 3.5 miles NW. of Indian Pt.
WR	61	(85)	CASTLE RIVER, Duncan Canal, 3.5 miles W. of N. tip of Big Castle I.
WR	62	(86)	KAH SHEETS CREEK, Sumner Strait, Kah Sheets Bay, Head
WR	63	(88)	TOTEM CREEK, Sumner Strait, Totem Bay, 3 miles E. of head
WR	64	(89)	Sumner Strait, Totem Bay, Head
WR	65	(90)	BARRIE CREEK, Sumner Strait, Keku Strait, 2.5 miles N. of Pt. Barrie
WR	66	(91)	LOVELESS CREEK, Sumner Strait, Keku Strait, 4 miles N. of Skiff I.
WR	67	(92)	TUNEHEAN CREEK, Sumner Strait, Keku Strait, 2 miles S. of Devil's Elbow
WR	68	(93)	Sumner Strait, Threemile Arm, in cove 5 miles E. of head
WR	69	(94)	Sumner Strait, Threemile Arm, Head
WR	70	(95)	Sumner Strait, Seclusion Harbor, Salt Lagoon, 0.5 mile from head
WR	71	(96)	Sumner Strait, Seclusion Harbor, Salt Lagoon, Head
WR	72	(98)	Sumner Strait, 1 mile S. of entrance to No Name Bay
WR	73	(99)	Sumner Strait, Alvin Bay, Head
WR	73A	(99-)	Sumner Strait, Alvin Bay, 0.5 mile from head on N. shore
WR	74	(No)	Sumner Strait, Reid Bay, head of N. arm
WR	74A	(No)	Sumner Strait, Reid Bay, 0.2 mile from head on N. arm on W. shore
WR	75	(100)	Sumner Strait, Reid Bay, in bight 1.5 miles S. of head of N. arm
WR	75A	(100-)	Sumner Strait, Reid Bay, in bight 1.6 miles S. of head of N. arm
WR	76	(101)	Sumner Strait, Reid Bay, head of W. arm
WR	76A	(101-)	Sumner Strait, Reid Bay, 0.1 mile N. of head of W. arm
WR	77	(103)	Sumner Strait, Port Beauclerc, 2.3 miles from entrance on N. shore
WR	78	(104)	Sumner Strait, Port Beauclerc, head of N. arm
WR	79	(105)	Sumner Strait, Port Beauclerc, 2 miles S. of head
WR	79A	(No)	Sumner Strait, Port Beauclerc, 2.5 miles S. of head of N. arm
WR	80	(106)	Sumner Strait, Port Beauclerc, 4 miles S. of head of N. arm
WR	81	(107)	Sumner Strait, Port Beauclerc, head of S. arm
WR	82	(No)	Sumner Strait, Port Beauclerc, S. of SE. tip of Edwards I.
WR	83	(108)	Sumner Strait, Louise Cove, 2 miles W. of Pt. Amelius
WR	84	(109)	Sumner Strait, Affleck Canal, in cove 10.5 miles S. of head of Affleck Canal, E. shore

WR			Sumner Strait, Affleck Canal, 2.5 miles from head on W. shore
WR	85	(110)	Sumner Strait, Affleck Canal, head of NW. corner
WR	86	(111)	Sumner Strait, Affleck Canal, Bear Harbor, head of N. arm
WR	88	(113)	Sumner Strait, Affleck Canal, Kell Bay, head of N. arm
WR	89	(116)	TROUT CREEK, Sumner Strait, 1.8 miles S. of Ruins Pt.
WR	90	(117)	Sumner Strait, Shipley Bay, in cove 2 miles from head
WR	91	(118)	SHIPLEY CREEK, Sumner Strait, Shipley Bay, NE. corner of bay
WR	92	(125)	MARBLE CREEK, Sumner Strait, Shakan Bay, 1.5 miles N. of Dry Pass
WR	93	(126)	CALDER CREEK, Sumner Strait, Shakan Bay, Calder Bay, Head
WR	94	(128)	Sumner Strait, Hole in the Wall, Head
WR	95	(129)	Sumner Strait, Port Protection, head of S. arm
WR	96	(130)	FLICKER CREEK, Sumner Strait, 3.8 miles E. of Pt. Baker, S. fork
WR	97	(131)	ALDER CREEK, Sumner Strait, 4.8 miles E. of Pt. Baker, E. fork
WR	98	(132)	BUSTER CREEK, Sumner Strait, 5 miles W. of entrance to Red Bay
WR	99	(133)	Sumner Strait, 4 miles W. of entrance to Red Bay
WR	100	(134)	Sumner Strait, Red Bay, SW. corner
WR	101	(135)	BIG CREEK, Sumner Strait, Red Bay, SW. corner
WR	102	(136)	PINE CREEK, Sumner Strait, Red Bay, 0.7 mile S. of Pine Pt.
WR	103	(137)	Clarence Strait, Salmon Bay, Head
WR		(139)	Clarence Strait, Kashevarof Passage, Exchange Cove, Head
WR	104	(140)	SQUAW CREEK, Clarence Strait, Kashevarof Passage, Whale Passage, in inlet N. of W. side of Thorne I.
WR	105	(141;108)	WHALE PASS, Head, Clarence Strait, Kashevarof Passage
WR		(142)	Clarence Strait, Kashevarof Passage, Whale Passage, Neck Lake, 1.5 miles from head
WR	106	(144)	Clarence Strait, Kashevarof Passage, Whale Passage, S. corner
WR	107	(150)	Clarence Strait, Kashevarof Passage, Gold and Gilligan Lagoon, entrance to Kashevarof Passage
WR	108	(154)	COFFMAN CREEK, Clarence Strait, Kashevarof Passage, Coffman Cove, Head
WR	109	(155)	EAGLE CREEK, Clarence Strait, 1.8 miles S. of Luck Pt.
WR	110	(156)	Clarence Strait, Ratz Harbor, Head
WR		(27)	DOG SALMON CREEK, Zimovia Strait, Anita Bay, N. shore of entrance
E	34		Frederick Sound, Keku Strait, Big John Bay, 2.7 miles from head on E. side
E	34A		BIG JOHN CREEK, Frederick Sound, Keku Strait, Big John Bay, 3.8 miles from N. head on E. side
E	34C		IRISH CREEK, Frederick Sound, Keku Strait, E. of High I.
E	7A		MUDDY RIVER, Frederick Sound, S. of Pt. Agassiz
E	31D		FIVEMILE CREEK, Frederick Sound, W. of Sukhoi Islets
WC	58	(18)	El Capitan Passage, opposite Aneskett Pt.
WC	59	(17)	WOLF CREEK, El Capitan Passage, N. of Aneskett Pt.
WC	60	(16)	EL CAPITAN CREEK, El Capitan Passage, N. end of Passage
WC	61	(14)	BEAR CREEK, El Capitan Passage, Dry Pass, 1 mile E. of entrance to Dry Pass
WC	62	(12)	SUTTER CREEK, Shakan Strait, 2 miles SW. of entrance to Dry Pass
WC	63	(13)	SMITH CREEK, Shakan Strait, 0.5 mile SW. of entrance to Dry Pass
WC	64	(15)	El Capitan Passage, S. of El Capitan Creek

REGULATORY DISTRICT NO. 5

El Capitan Passage, opposite Aneskett Pt.	WC	58	(18)
WOLF CREEK, El Capitan Passage, N. of Aneskett Pt.	WC	59	(17)
EL CAPITAN CREEK, El Capitan Passage, N. end of Passage	WC	60	(16)
BEAR CREEK, El Capitan Passage, Dry Pass, 1 mile E. of entrance to Dry Pass	WC	61	(14)
SUTTER CREEK, Shakan Strait, 2 miles SW. of entrance to Dry Pass	WC	62	(12)
SMITH CREEK, Shakan Strait, 0.5 mile SW. of entrance to Dry Pass	WC	63	
El Capitan Passage, S. of El Capitan Creek	WC	64	(15)
Frederick Sound, Keku Strait, Big John Bay, 2.7 miles from N. head on E. side	E	34	
BIG JOHN CREEK, Frederick Sound, Keku Strait, Big John Bay, 3.8 miles from head	E	34A	
IRISH CREEK, Frederick Sound, Keku Strait, E. of High I.	E	34C	
BARRIE CREEK, Sumner Strait, 2.5 miles N. of Pt. Barrie	WR	65	(90)
LOVELESS CREEK, Sumner Strait, 4 miles N. of Skiff I.	WR	66	(91)
TUNEHEAN CREEK, Sumner Strait, Keku Strait, 2 miles S. of Devil's Elbow	WR	67	(92)
Sumner Strait, Threemile Arm, in cove 5 miles E. of head	WR	68	(93)
Sumner Strait, Threemile Arm, Head	WR	69	(94)
Sumner Strait, Seclusion Harbor, Salt Lagoon, 0.5 mile from head	WR	70	(95)
Sumner Strait, Seclusion Harbor, Salt Lagoon, Head	WR	71	(96)
Sumner Strait, 1 mile S. of entrance to No Name Bay	WR	72	(98)
Sumner Strait, Alvin Bay, Head	WR	73	(99)
Sumner Strait, Alvin Bay, 0.5 mile from head on N. shore	WR	73A	(99-)
Sumner Strait, Reid Bay, head of N. arm	WR	74	
Sumner Strait, Reid Bay, 0.2 mile from head of N. arm on W. shore	WR	74A	
Sumner Strait, Reid Bay, in bight 1.5 miles S. of head of N. arm	WR	75	(100)
Sumner Strait, Reid Bay, in bight 1.6 miles S. of heaa of N. arm	WR	75A	(100-)
Sumner Strait, Reid Bay, head of W. arm	WR	76	(101)
Sumner Strait, Reid Bay, 0.1 mile N. of head of W. arm	WR	76A	(101-)
Sumner Strait, Port Beauclerc, 2.3 miles from entrance on N. shore	WR	77	(103)
Sumner Strait, Port Beauclerc, head of N. arm	WR	78	(104)
Sumner Strait, Port Beauclerc, 2 miles S. of head on N. arm	WR	79	(105)
Sumner Strait, Port Beauclerc, 2.5 miles S. of head on N. arm	WR	79A	
Sumner Strait, Port Beauclerc, 4 miles S. of head on N. arm	WR	80	(106)
Sumner Strait, Port Beauclerc, head of S. arm	WR	81	(107)
Sumner Strait, Port Beauclerc, S. of SE. tip of Edwards I.	WR	82	
Sumner Strait, Louise Cove, 2 miles W. of Pt. Amelius	WR	83	(108)
Sumner Strait, Affleck Canal, 10.5 miles S. of head of Affleck Canal, E. shore	WR	84	(109)
Sumner Strait, Affleck Canal, Head, NW. corner	WR	85	(110)
Sumner Strait, Affleck Canal, Bear Harbor, head of N. arm	WR	86	(111)
Sumner Strait, Affleck Canal, Kell Bay, head of N. arm	WR	88	(113)
TROUT CREEK, Sumner Strait, 1.8 miles S. of Ruins Pt.	WR	89	(116)
Sumner Strait, Shipley Bay, in cove 2 miles from head of bay	WR	90	(117)
SHIPLEY CREEK, Sumner Strait, Shipley Bay, NE. corner of bay	WR	91	(118)
MARBLE CREEK, Sumner Strait, Shakan Bay, 1.5 miles N. of Dry Pass	WR	92	(125)
CALDER CREEK, Sumner Strait, Shakan Bay, Calder Bay, Head	WR	93	(126)
Sumner Strait, Hole in the Wall, Head	WR	94	(128)

Sumner Strait, Port Protection, head of S. arm	WR	95	(129)
Sumner Strait, Affleck Canal, 2.5 miles from head on W. shore	WR		

REGULATORY DISTRICT NO. 6

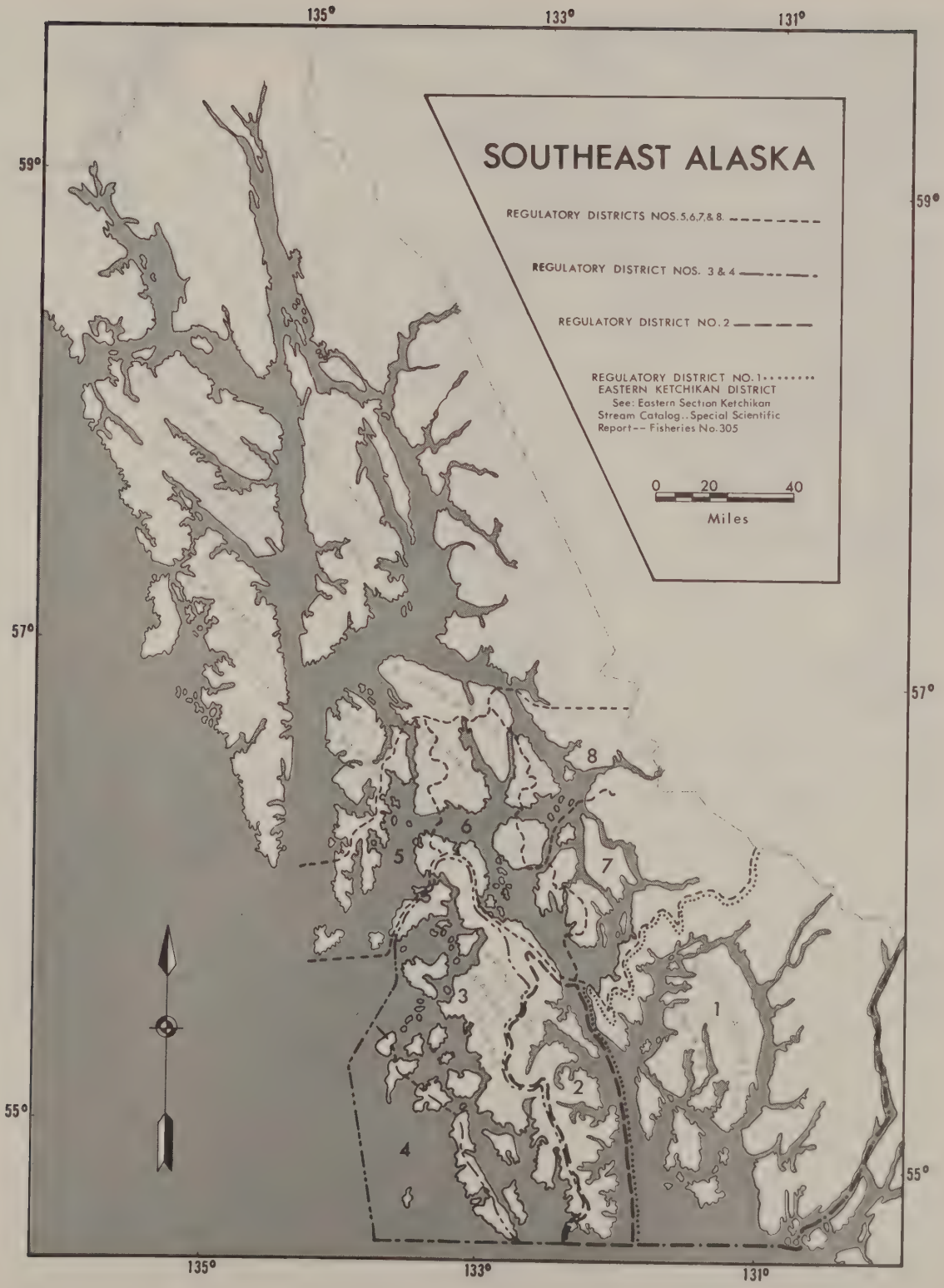
Clarence Strait, McHenry Inlet, 0.2 mile from E. head of E. arm	WR	36	(49)
McHENRY LAKE CREEK, Clarence Strait, McHenry Inlet, head of E. arm	WR	37	(50)
NAVY CREEK, Clarence Strait, Burnett Inlet, 2 miles NE. of Isle Pt.	WR	38	(52)
Clarence Strait, Mosman Inlet, 1 mile from head	WR	39	(53)
Clarence Strait, Mosman Inlet, Head	WR	40	(54)
STREETS LAKE CREEK, Clarence Strait, Rocky Bay, Head	WR	41	(55)
PORCUPINE CREEK, Clarence Strait, Steamer Bay, Head	WR	42	(56)
Clarence Strait, Snow Passage, 2.5 miles NW. of Pt. Nesbitt	WR	46	(60)
Clarence Strait, Snow Passage, NE. of Bushy I.	WR	47	(61)
Clarence Strait, 1 mile N. of Macnamara Pt.	WR	48	(62)
ST. JOHN CREEK, Sumner Strait, Pt. St. John, Head	WR	49	(64)
FALL CREEK, Wrangell Narrows, 1 mile N. of Rock Pt.	WR	55	(78)
PETERSBURG CREEK, Wrangell Narrows, NW. of Bayou Pt.	WR	56	(79)
OHMER CREEK, Duncan Canal, Ohmer Slough, Head	WR	57	(80)
DUNCAN CREEK, Duncan Canal, 2.5 miles NW. of Ohmer Slough	WR	58	(81)
Duncan Canal, Towers Bay, Head	WR	59	(83)
Duncan Canal, 3.5 miles NW. of Indian Pt.	WR	60	(84)
CASTLE RIVER, Duncan Canal, 3.5 miles W. of N. tip of Big Castle I.	WR	61	(85)
KAH SHEETS CREEK, Sumner Strait, Kah Sheets Bay, Head	WR	62	(86)
TOTEM CREEK, Sumner Strait, Totem Bay, 3 miles E. of head	WR	63	(88)
Sumner Strait, Totem Bay, Head	WR	64	(89)
FLICKER CREEK, Sumner Strait, 3.8 miles E. of Point Baker, S. fork	WR	96	(130)
ALDER CREEK, Sumner Strait, 4.8 miles E. of Point Baker, E. fork	WR	97	(131)
Sumner Strait, 5 miles W. of entrance to Red Bay	WR	98	(132)
Sumner Strait, 4 miles W. of entrance to Red Bay	WR	99	(133)
Sumner Strait, Red Bay, SW. corner	WR	100	(134)
BIG CREEK, Sumner Strait, Red Bay, SW. corner	WR	101	(135)
PINE CREEK, Sumner Strait, Red Bay, 0.7 mile S. of Pine Pt.	WR	102	(136)
Clarence Strait, Salmon Bay, Head	WR	103	(137)
SQUAW CREEK, Clarence Strait, Kashevarof Passage, Whale Passage, on inlet N. of W. side	WR	104	(140)
WHALE PASS, Head, Clarence Strait, Kashevarof Passage	WR	105	(141; 108)
Clarence Strait, Kashevarof Passage, Whale Passage, S. corner	WR	106	(144)
Clarence Strait, Gold and Gilligan Lagoon, entrance to Kashevarof Passage	WR	107	(150)
COFFMAN CREEK, Clarence Strait, Kashevarof Passage Coffman Cove, Head	WR	108	(154)
EAGLE CREEK, Clarence Strait, 1.8 miles S. of Luck Pt.	WR	109	(155)
Clarence Strait, Ratz Harbor, Head	WR	110	(156)
Clarence Strait, Kashevarof Passage, Exchange Cove, Head	WR		(139)
Clarence Strait, Kashevarof Passage, Whale Passage, Neck Lake, 1.5 miles from head	WR		(142)

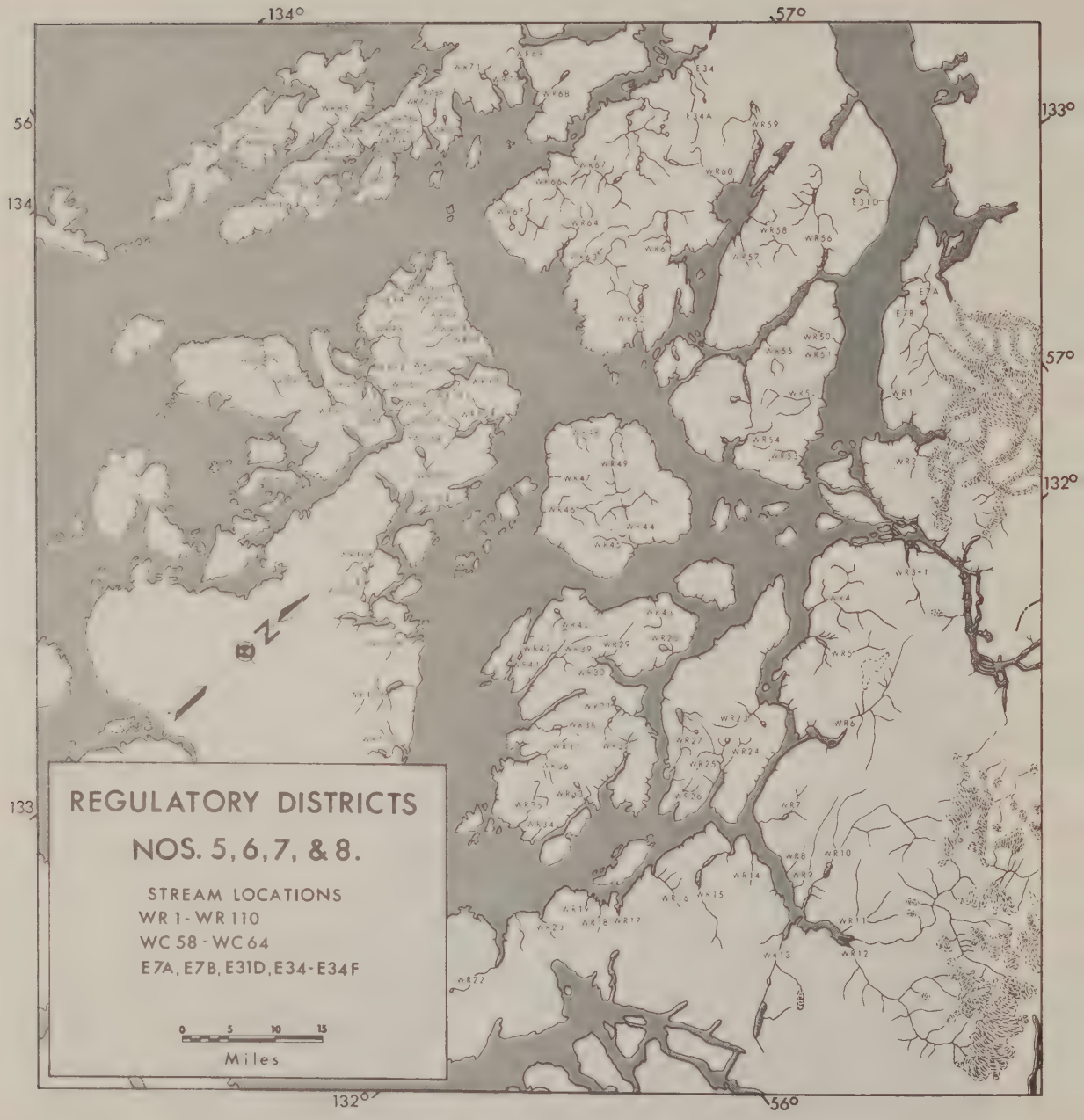
REGULATORY DISTRICT NO. 7

CRITTENDEN CREEK, Eastern Passage, 1 mile NE. of Babbler Pt., N. of Mill Creek	WR	4	(5)
MILL CREEK, Eastern Passage, N. side, 5 miles above Pt. Madan	WR	5	(6)
AARON CREEK, Blake Channel, enters large bay immediately E. of Neptune I.	WR	6	(8)
MARTEN CREEK, Bradfield Canal, 1 mile from entrance on N. shore	WR	7	(10)
FRANK'S CREEK, Bradfield Canal, 8 miles from entrance on N. shore	WR	8	(11)
TOM CREEK, Bradfield Canal, 9.5 miles from entrance on N. shore	WR	9	(12)
HARDING RIVER, Bradfield Canal, 6.3 miles from head on N. shore	WR	10	(13)
NORTH BRADFIELD RIVER, Bradfield Canal, N. head	WR	11	(14)
EAST BRADFIELD RIVER, Bradfield Canal, E. head	WR	12	(15)
EAGLE RIVER, Bradfield Canal, Eagle Bay, head on S. shore	WR	13	(16)
ANAN BAY CREEK, Bradfield Canal, Anan Bay, Head	WR	14	(17)
ANAN CREEK, Bradfield Canal, Humpback Bay, Head	WR	15	(18)
FROSTY CREEK, Seward Passage, Frosty Bay, Head	WR	16	(19)
SANTA ANNA CREEK, Seward Passage, Santa Anna Inlet, Head	WR	17	(20)
SUNNY CREEK, Seward Passage, Sunny Bay, Head	WR	18	(21)
Seward Passage, 1.5 miles E. of Watkins Pt.	WR	19	(22)
EMERALD CREEK, Ernest Sound, Emerald Bay, Head	WR	20	(24)
VIXEN CREEK, Ernest Sound, Vixen Inlet, Head	WR	22	(26)
Eastern Passage, in cove 2 miles SE. of Channel I.	WR	23	(31)
Ernest Sound, Fools Inlet, E. head	WR	24	(32)
FOOLS CREEK, Ernest Sound, Fools Inlet, W. head	WR	25	(33)
SOUTHEAST CREEK, Clarence Strait, Ernest Sound, Southeast Cove, Head	WR	26	(34)
THOMS CREEK, Zimovia Strait, Thoms Place, Head	WR	27	(35)
DOG SALMON CREEK, Zimovia Strait, Anita Bay, N. shore of entrance	WR		(27)
Zimovia Strait, Anita Bay, Head	WR	29	(40)
Zimovia Strait, Anita Bay, W. head	WR	30	(41)
SNAKE CREEK, Zimovia Strait, Olive Cove, Head	WR	31	(42)
MENEFEE CREEK, Ernest Sound, Menefee Inlet, Head	WR	32	(44)
Ernest Sound, Canoe Passage, NW. of Brownson I.	WR	33	(45)
Ernest Sound, 1 mile W. of entrance to Canoe Passage	WR	34	(47)
KUDAY'S CREEK, Ernest Sound, 2 miles W. of entrance to Canoe Passage	WR	35	(48)

REGULATORY DISTRICT NO. 8

MUDDY RIVER, Frederick Sound, S. of Pt. Agassiz	E	7A	
FIVEMILE CREEK, Frederick Sound, W. of Sukhoi Islets	E	31D	
JAP CREEK, Frederick Sound, Le Conte Bay, 3.5 miles N. of entrance to Le Conte Bay	WR	1	(1)
Frederick Sound, Le Conte Bay, SE. corner	WR	2	(3)
ANDREW CREEK, Frederick Sound, Dry Strait, Stikine River tributary, S. bank SE. of Limb I.	WR	3-1	(5)
NORTH ARM CREEK, Clarence Strait, Stikine River, 1 mile NE. of Farm I., N. shore	WR	3-2	(4)
KUNK (KONKE) CREEK, Zimovia Strait, W. of Nemo Pt.	WR	28	(38)
Sumner Strait, Stikine Strait, 2 miles SW. of NW. tip of Etolin I.	WR	43	(57)
Sumner Strait, Stikine Strait, Meter Bight, 4 miles SW. of S. Craig Pt.	WR	44	(58)
Sumner Strait, Stikine Strait, Meter Bight, 4.5 miles SW. of S. Craig Pt.	WR	45	(59)
Frederick Sound, 2 miles SE. of Frederick Pt.	WR	50	(66)
Frederick Sound, 3 miles SE. of Frederick Pt.	WR	51	(67)
BIG CREEK, Frederick Sound, 8 miles SE. of Frederick Pt.	WR	52	(69)
Frederick Sound, Dry Strait, 3.5 miles SE. of Cosmos Pt.	WR	53	(72)
Sumner Strait, Blind Slough, head of N. arm	WR	54	(73)


SOUTHEAST ALASKA
REGULATORY DISTRICTS NOS. 5,6,7,& 8.
REGULATORY DISTRICT NOS. 3 & 4
REGULATORY DISTRICT NO. 2
REGULATORY DISTRICT NO. 1
EASTERN KETCHIKAN DISTRICT
See: Eastern Section Ketchikan Stream Catalog..Special Scientific Report-- Fisheries No. 305
0 20 40
Miles
135°
133°
131°
59°
57°
55°
1
2
3
4
5
6
7
8


134°
57°
56
133°
134
57°
132°
133
132°
56°
REGULATORY DISTRICTS
NOS. 5, 6, 7, & 8.
STREAM LOCATIONS
WR 1 - WR 110
WC 58 - WC 64
E7A, E7B, E31D, E34 - E34F
0 5 10 15
Miles

REGULATORY DISTRICT NO. 5

144-62
56°09.2' N. 133°14' W.

ADF STAT. No.
WC 58
Previous No. 18

WEST COAST, EL CAPITAN PASSAGE, opposite Aneskett Pt.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 1.6 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Poor for aerial survey.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Logs and debris, two places impassable at low water.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES May be capable of producing some fish in the good areas.

144-62

ADF STAT. No.
WC 58
Previous No. 18

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1941								
		FWS	4,000		2,000			Fair
1942								
Sept 12		FWS	1,000		200			Poor
1943								
Sept 23		FWS	5,000		1,000			Fair
1944								
Sept 24		FWS	6,500					Good
1945								
Sept 8		FWS	20,000					Excellent
1957								
Sept 19	G 0.8	FWS	60	20				

144-62 WOLF CREEK WC59

144-62 WOLF CREEK ADF STAT. No. WC 59
56°09.8' N. 133°17.8' W. Previous No. 17

WEST COAST, EL CAPITAN PASSAGE, N. of Aneskett Pt.

MAJOR SPECIES Pinks. OTHER SPECIES Chums.
ESCAPEMENT TIMING Late. Sept. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. A mile upstream the creek runs along the base of a snow-capped mountain. The valley runs in a SW. direction.
DRAINAGE 5.3 square miles (polar planimeter) Precipitation-fed. The outlets of two lakes drains into this stream. Snowfields at the head of the valley contribute snowmelt at certain times of the year.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

144-62

WOLF CREEK

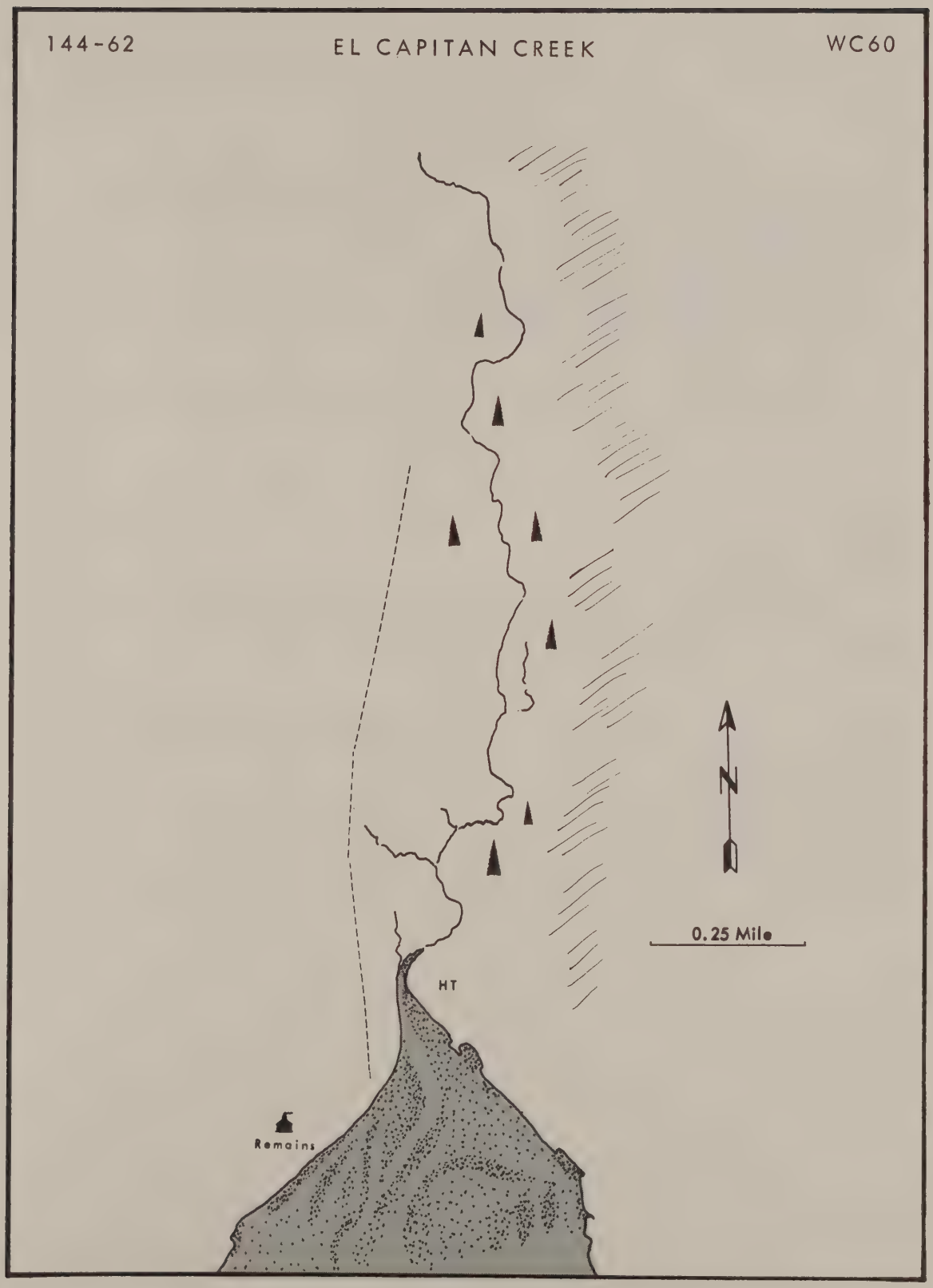
ADF STAT. No.
WC 59
Previous No. 17

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1940								
Sept 30		FWS	6,000					Fair
1942								
Sept 12		FWS	1,500		500			Poor
1943								
Sept 22		FWS	30,000					Excellent
1944								
Sept 17		FWS	14,000					Fair
1945								
Sept 17		FWS	40,000					Excellent
1957								
Sept 19	G 1.3	FWS	400	200				

144-62 EL CAPITAN CREEK WC60



144-62 EL CAPITAN CREEK ADF STAT. No. WC 60
56° 10.1' N. 133° 20.4' W. Previous No. 16

WEST COAST, EL CAPITAN PASSAGE, N. end of Passage.

MAJOR SPECIES Pinks. OTHER SPECIES Chums, cohos.
ESCAPEMENT TIMING Late. Aug. -Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair to good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. The valley is bordered on the E. side by a mountain, and the slope on this side is steep in places. The valley widens upstream.
DRAINAGE 5.6 square miles (polar planimeter). Precipitation fed. A few small lakes are found within the drainage area, but the stream is fed largely by surface run-off.
STREAM MOUTH IDENTIFICATION Enters on a large grass flats at extreme NW. corner of El Capitan Passage.
ANCHORAGE Anchor right off stream mouth in 6 fathoms.
TRAILS AND SURVEY ROUTES An old quarry trail following the stream banks is overgrown, but can be used for travel.
AERIAL SURVEY NOTES Impossible to survey by air due to heavy overstory.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 50'-60'/15"-18".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A pool below the high tide mark offers facilities for schooling salmon.
SPAWNING AREAS Most of the spawning takes place in this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 3 miles. AVERAGE WIDTH/DEPTH 20'-30'/6"-10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Gravel and marble.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two bedrock falls 0.7 mile upstream are partial blocks to salmon passage at low flow.
TRIBUTARIES None reported.
SCHOOLING AREAS Numerous pools.
SPAWNING AREAS Spawning is limited to the lower part because of extensive areas of bedrock.
GENERAL NOTES

144-62

EL CAPITAN CREEK

ADF S.TAT. No.
WC 60
Previous No. 16

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1940								
Sept 30		FWS	25,000		2,000			Good
1941								
		FWS	12,000					Fair
1942								
Sept 11		FWS	12,000		6,000			Fair
1943								
Sept 22		FWS	35,000		15,000			Good
1944								
Sept 17		FWS	16,500		1,200			Fair
1945								
Sept 19		FWS	45,000		2,,500			Excellent
1946								
Oct 11		FWS	25,000		5,000			Fair
1947								
Oct 1	G 0.5	FWS						1,000 chums off mouth
1948								
Aug 16	G 2.0	ASI	130		78			
Aug 25	G 1.5	ASI	12,000		3,200			15,000 off mouth
Sept 15	G 2.5	ASI	350	34,000	500	4,400		
Oct 9	G 1.5	ASI	1,606	1,350	333	2,850	180 cohos	Good
1949								
Aug 8	G 1.8	FRI	5		25			
Aug 21	G 0.8	FWS	5,000		200			
Sept 3	G 0.3	FRI	3,480	17	260	11		
Sept 11	G 1.5	FRI	5,160	>20	850	225		
Sept 25	G 1.5	FWS	4,850	322	126	133	20 cohos	
1954								
Sept 17	G	FWS	30,000	4,000				
Sept 17	G	FWS	25,000	3,000				Intertidal zone
1957	G 1.5	FWS						
Sept 19		FWS	8,000	6,012				Few chums

144-62 BEAR CREEK ADF STAT. No. WC 61
56° 09.7' N. 133° 23.4' W. Previous No. 14

WEST COAST, EL CAPITAN PASSAGE, DRY PASS, 1 mile E. of entrance to Dry Pass.

MAJOR SPECIES Pinks. OTHER SPECIES Chums.
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 0.3 square mile (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES No trails. Brushy banks make travel difficult.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 30'/12".
GRADIENT AND VELOCITIES Steep.
BOTTOM Bedrock, small rock, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two falls are present. The first is passable, but the second is a total block to salmon.
TRIBUTARIES
SCHOOLING AREAS A few holes are available for schooling.
SPAWNING AREAS
GENERAL NOTES Carries a large volume of water, but most of the stream is torrential.

144-62

BEAR CREEK

ADF STAT. No.
WC 61
Previous No. 14

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1940								
Oct 1		FWS	10,000					Good
1942								
Sept 10		FWS	20,000		5,000			Good
1943								
Sept 22		FWS	1,000		50,000			Good
1944								
Sept 18		FWS	250		700			Poor
1945								
Sept 18		FWS	500		100			Poor
1946								
Oct 11		FWS	7,000					Poor
1947								
Oct 1		FWS	5,000		1,000			Good

122-31
SUTTER CREEK
WC62
HT
0.25 Mile

122-31 SUTTER CREEK ADF STAT. No. WC 62
56°09' N. 133°26.6' W. Previous No. 12

WEST COAST, SHAKAN STRAIT, 2 miles S W. of entrance to Dry Pass.

MAJOR SPECIES Pinks. OTHER SPECIES Cohos, reds
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial cut.
DRAINAGE 6.8 square miles (polar planimeter). Drains two lakes. The first is 0.3 mile long and the second 0.5 mile long. These lakes are fed by small feeder streams. Snowfields surround the upper valley.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile to lake. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1942								
Sept 11		FWS	5,000					
1943								
Sept 21		FWS	5,000				2,500 cohos	Fair
1944								
Sept 24		FWS	1,600				1,800 cohos, 8,500 reds	Fair
1945								
Sept 18		FWS	15,000					Good

122-31
56°09.6' N. 133°24.9' W.

SMITH CREEK

ADF STAT. No.
WC 63
Previous No. 13

WEST COAST, SHAKAN STRAIT, 0.5 mile SW. of entrance to Dry Pass.

MAJOR SPECIES Pinks.
OTHER SPECIES Chums.
ESCAPEMENT TIMING Late. Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION Stream-cut. The valley runs in a northeasterly direction.
DRAINAGE 2 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1941		FWS	17,000					Good
1942								
Sept 11		FWS	8,000		2,000			Fair
1943								
Sept 22		FWS	5,000					Fair

144-62
WC64
N
0.25 Mile
HT

ADF STAT. No.
WC 64
Previous No. 15

144-62
56°08.8' N. 133°20.7' W.

WEST COAST, EL CAPITAN PASSAGE, S. of El Capitan Creek.

MAJOR SPECIES Pinks. OTHER SPECIES Chums.
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. The valley runs NE. in its upper reaches and N. near its lower end. Broadens at the stream's headwaters.
DRAINAGE 4.4 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.8 mile AVERAGE WIDTH/DEPTH 15'/? .
GRADIENT AND VELOCITES Moderate.
BOTTOM Fine gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A few pools.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 10'-15'/6"-10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Coarse gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Gradient becomes very steep a short distance upstream and makes travel upstream difficult for salmon.
TRIBUTARIES None.
SCHOOLING AREAS Numerous pools.
SPAWNING AREAS Very limited. The lower section has the most available spawning area.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	
1943								
Sept 22		FWS	50,000					Good
1944								
Sept 18		FWS	10,150		350			Fair
1945								
Sept 19		FWS	101,000					Excellent
1946								
Oct 11		FWS	1,500					Poor
1957								
Sept 20	G 0.3	FWS	60	20				

154-93
E34
0.25 Mile
HT

ADF STAT. No.
E 34
154-56 Previous No.
56°54' N. 133°40.5' W.

EASTERN, FREDERICK SOUND, KEKU STRAIT, BIG JOHN BAY, 2.7 miles from head on E. side.

MAJOR SPECIES Chum. OTHER SPECIES Pink.
ESCAPEMENT TIMING Middle. Late Aug. to early Sept.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 6.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Fishing vessels anchor in SE. arm in 18 to 24 fathoms; soft bottom.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS In many places at the mouth of this stream, the bottom is bedrock shale interspersed with good spawning areas.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 75'/20".
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS One-third mile upstream is a 5' accessible falls; three-fourths mile up is a 4' accessible falls; 2 miles up is a 6' falls impassable to salmon. Stream should accommodate 50,000 salmon with some blasting. The upper falls could be made accessible by blasting.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Good.
GENERAL NOTES Barrier data source: Microfilm No. 137-2 FRI - SE. Alaska Research. Stream Survey Data, 1931-50, 1952.

154-56

ADF STAT No.
E 34
Previous No.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1943								
Sept 16	2.0	FRI	7,500		7,500			
1950								
Sept 9								No fish observed
1955								
Sept 11	G 2.0	ADF	25,000					
1956								
Aug 24	0.7	FWS			8,000			
Sept 7	3.0	FWS						500 pinks, 1,000 chums at mouth
Sept 9	6.0	FWS	7,000		13,000			
Sept 15	2.0	FWS	450		8,000			
1957								
Aug 16	A 2.0	FWS						No fish observed
1963								
Aug 9	A length	ADF						No fish observed in stream; jumps in bay

154-56 BIG JOHN CREEK ADF STAT. No. E 34A
56°48.9' N. 133°40.5' W.

EASTERN, FREDERICK SOUND, KEKU STRAIT, BIG JOHN BAY, 3.8 miles from head.

MAJOR SPECIES Formerly pinks. OTHER SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURE No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	
1956								
Aug 24	1.0	FWS			169			
Sept 1	0.7	FWS						8,000 pinks at mouth
1957								
Aug 16	A 2.0	FWS	500					
1963								
Aug 9	A length	ADF						No fish observed in stream; jumps in bay

ADF STAT. No.

154-56 IRISH CREEK E 34C

56°43.7' N. 133°40.6 W.

EASTERN, FREDERICK SOUND, KÉKU STRAIT, ROCKY PASS, opposite High I., E. shore.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES This creek has a falls that prevents spawning in the upper spawning grounds. About one-tenth of the stream is utilized; area above the falls is idle.
STREAM TEMPERATURES No observed temperatures.
VALLEY DESCRIPTION Drains long, flat muskeg valley; several small lakes.
DRAINAGE 11.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Low narrow flats.
ANCHORAGE
TRAILS AND SURVEY ROUTES Easy game trail on left bank.
AERIAL SURVEY NOTES It is the opinion of the surveyor that this stream is an ideal one and is capable of a tremendous potential above the falls. Several miles above the falls it branches, with two lakes at the inlet.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 75'/16".
GRADIENT AND VELOCITIES Slight.
BOTTOM Fine gravel and sand.
LOW TIDE LOCATION Flats.
HIGH TIDE LOCATION Almost to falls.
SCHOOLING AREAS
SPAWNING AREAS Upper half of intertidal zone has good spawning.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE To falls. AVERAGE WIDTH/DEPTH 75'/20".
GRADIENT AND VELOCITIES
BOTTOM Gravel and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS 22 barrier falls.
TRIBUTARIES None below falls.
SCHOOLING AREAS Deep hole under falls.
SPAWNING AREAS Good.
GENERAL NOTES Miles of excellent spawning area is available above falls; however, laddering of these falls would be extensive. Preliminary engineers survey by G. Liemer made 1963.

154-56 IRISH CREEK ADF STAT. No. E 34C

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Miles	REMARKS
1953								
Aug 10	G	FWS			100			
1956								
Aug 29	0.7	FWS			1,500			
Sept 6	6.0	FWS						2,500 mixed
Sept 8	3.0	FWS	800		1,200			
Sept 13	6.0	FWS	2,250		2,250			
1957								
Aug 16	A abv falls	FWS	100					
Sept 4	A past falls	FWS	8,000					
Sept 9	G 0.2	FWS	71		258			
1958								
Aug 25	A 0.2	FWS			100			
Aug 26	G 0.2	FWS			300			
1959								
Aug 17	A to falls	FWS						No fish observed
1960								
Aug 29	A 1.0	ADF						No fish observed
1963								
Aug 9	A length	ADF			10			

144-10
WR 65
0.25 Mile
HT
pool

144-10 BARRIE CREEK ADF STAT. No. WR 65
56°28.4' N. 133°39.6 W. Previous No. 90

WRANGELL, SUMNER STRAIT, KEKU STRAIT, 2.5 miles N. of Pt. Barrie.

MAJOR SPECIES Pink. OTHER SPECIES Coho, red, chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 20.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Adequate anchorage is found 500 yards S. of the mouth.
TRAILS AND SURVEY ROUTES Many gravel bars run along the stream, making travel easy. Wading possible.
AERIAL SURVEY NOTES The stream is open enough for aerial survey, often too dark to survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 40'/12".
GRADIENT AND VELOCITIES Mostly swift.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A few deep holes.
SPAWNING AREAS Some spawning gravel in the lower portion.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles to lake. AVERAGE WIDTH/DEPTH 20'-40'/8"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mostly bedrock and some gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Beaver dams are sometimes a problem.
TRIBUTARIES
SCHOOLING AREAS A few good pools, but mostly riffles.
SPAWNING AREAS Good spawning facilities.
GENERAL NOTES A small stream with mainly a bedrock bottom.

ADF STAT. No.
WR 65
Previous No. 90

144-10 BARRIE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 8	1.2	FWS	15,000	437	250	50	1 cohos	
1953								
July 30	A 0.6	FWS						No fish observed. Water very. low
1955								
July 13	G 0.5	FWS					40 reds	
July 15	G 0.5	FWS					200 reds	
July 25	G 0.5	FWS					50 reds	
July 27	G 0.5	FWS					60 reds	
Aug 9	G 0.5	FWS					>300 reds	
1956								
June 29	G	FWS						No fish observed
July 7	G	FWS					1,000 reds	
Aug 4	A 0.5	FWS	3,000					
Aug 9	A length	FWS					12 reds	
Aug 10	G 0.5	FWS	2,000					
Aug 18	G	FWS	>7,000					7,000 entered creek
Aug 19	G	FWS						No fish observed
1957								
July 23	G mouth	FWS					30,000-40,000 reds	
Aug 17	G 0.2	FWS	800					10,000 pinks at mouth
Aug 20	G length	FWS	1,500					
Aug 22	G mouth	FWS	6,375		1,700		200 cohos	
Aug 30	G 0.5	FWS	480	20	150	5		
Sept 3	A 1.0	FRI-FWS	300		188			
Sept 4	A 1.0	FWS						No fish observed
1958								
July 20	G 0.1	FWS					>2,000 reds	
July 26	G	FWS					500 reds	
July 29	G	FWS			200		600 reds	
July 30	G	FWS					600 reds	
Aug 2	G	FWS					100 reds	
Aug 3	G	FWS	3,000					
Aug 4	G 0.2	FWS	2,000				1,000 reds	
Aug 8	G 0.5	FWS	300					
Aug 29	G 5.0	FWS	5,000				25 cohos	
Season		FWS	11,600		200		10,000 reds, 25 cohos	
Sept 2	A to lake	FWS	1,200		200			
Sept 15	G 1.5	FWS	800				6 cohos, 1 reds	
1959								
July 11	G flats	FWS					2,000 reds	On flats
July 14	G flats	FWS					1,000 reds	On flats
July 21	G flats	FWS					25 reds	
Aug 4	G mouth	FWS	150				50 reds	
Aug 5	G mouth	FWS	150				40 reds	
Aug 7	G mouth	FWS	200				100 reds	
Aug 8	G mouth	FWS	300				50 reds	
Aug 10	G mouth	FWS	3,000					
Aug 12	G mouth	FWS	2,000					

ADF STAT. No.
WR 65

144-10 BARRIE CREEK - Continued Previous No. 90

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
Aug 16	G mouth	FWS	1,000					
Aug 18	G mouth	FWS	1,000					
Aug 21	A	FWS	1,000					
1960								
June 24	A 5.0	ADF						No fish observed
July 31	A 5.0	ADF						No fish observed
Aug 24	A 0.1	ADF						No fish observed
1961								
July 4	A 5.0	ADF						No fish observed
Aug 25	A 5.0	ADF	present					Fish present. Stream too dark
1962								
Aug 20	A 1.0	ADF						No fish observed
Aug 29	A length	ADF	40,000					
1963								
Aug 9	A 1.0	ADF	few					1,000 at mouth; 100 in intertidal; vision poor
Aug 19	A to lake	ADF	9,000					Low water

144-10 LOVELESS CREEK WR 66

144-10 LOVELESS CREEK

56°33.3' N. 133°39.2' W.

ADF STAT. No.
WR 66
Previous No. 91
FWS No. 67

WRANGELL, SUMNER STRAIT, KEKU STRAIT, 4 miles N. of Skiff I.

MAJOR SPECIES Pink, chum.
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 16 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Lies on the S. side of a small, partially wooded peninsula.
ANCHORAGE Anchor S. of the mouth in front of the FWS stream guard cabin.
TRAILS AND SURVEY ROUTES Easily traveled up the streambed except in areas of windfalls. A good game trail follows the right bank.
AERIAL SURVEY NOTES Usually too dark color to survey.

INTERTIDAL ZONE

LENGTH 0.7 mile.
AVERAGE WIDTH/DEPTH 10'/8".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 10'-15'/8".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES Two miles upstream, the creek splits into numerous channels.
SCHOOLING AREAS Numerous pools.
SPAWNING AREAS Good spawning riffles are found throughout the distance surveyed.
GENERAL NOTES

ADF STAT. No.
WR 66
Previous No. 91

144-10

LOVELESS CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

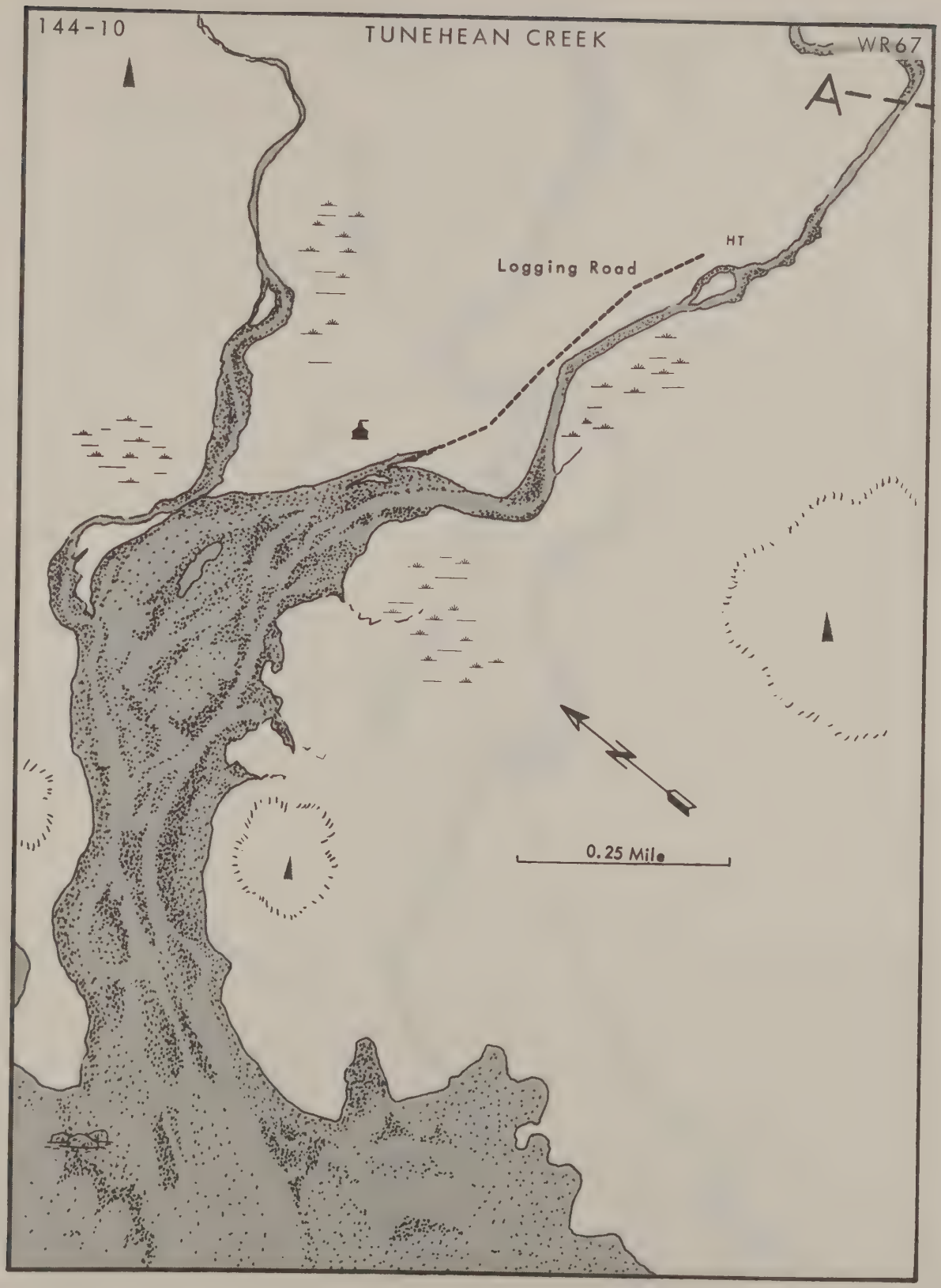
Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1954								
July 30	0.7	FWS	2		195			
Aug 12	A	FWS	0		2,000			
Aug 10	A	FWS			2,000			Estimated
Aug 27	A 0.5	FWS	3,600		350			
1955								
July 25	G mouth	FWS			100			
July 29	G mouth	FWS			40			
July 31	G mouth	FWS			2,000			
Aug 17	G mouth	FWS			200			
Aug 22	G mouth	FWS						200 pinks at mouth
Aug 24	A length	FWS	12,500					
Aug 27	G mouth	FWS						A few fish present
Sept 6	A 3.0	FWS	8,000					Total 10,000, no dead
1956								
Aug 5	A	FWS	8					
Aug 12	G	FWS	400					
Aug 17	G 1.5	FWS	1,400		100			
Aug 21	A 1.2	FWS						3,000 salmon present
Aug 27	G 1.7	FWS	5,000		10,000			
Sept 10	A 3.0	FWS						2,000 salmon seen
1957								
July 28	G 0.5	FWS	350		15			
July 31	G 1.2	FWS	1,000		30			
Aug 7	G 1.7	FWS	600		200			
Aug 11	G 0.2	FWS	200		200			
Aug 19	G 1.5	FWS			1,750	60		
Aug 20	A 6.0	FWS						18,000 in stream, 8,000 at mouth
Aug 23	G 0.2	FWS	1,200		2,800			
Aug 25	G 2.7	FWS	325		1,575			
Aug 28		FWS	20		100			
Aug 30	G 2.0	FRI	1,000		2,000			1,500 dead
Sept 3	G 1.0	FRI-FWS	360		188			
Sept 4	A 1.0	FWS	15,000		7,000			
Sept 14	G 1.0	FRI-FWS	85		125		4 cohos	
1958								
July 23	G 0.5	FWS			10			
July 28	A 0.5	FWS			75			
Aug 9	G 0.5	FWS	210		490			
Aug 22	G 2.7	FWS	1,350		3,160	200		
Aug 28	lst hole	FWS	150		150			
Aug 30	G 1.5	FWS	620		800	298		
Season		FWS	1,500		4,500			
Sept 2	A 2.0	FWS	4,000		700	700		
Sept 10	A 2.0	FWS	1,200		500			600 mixed dead
Sept 15	G 0.5	FWS	400					A few dead pinks

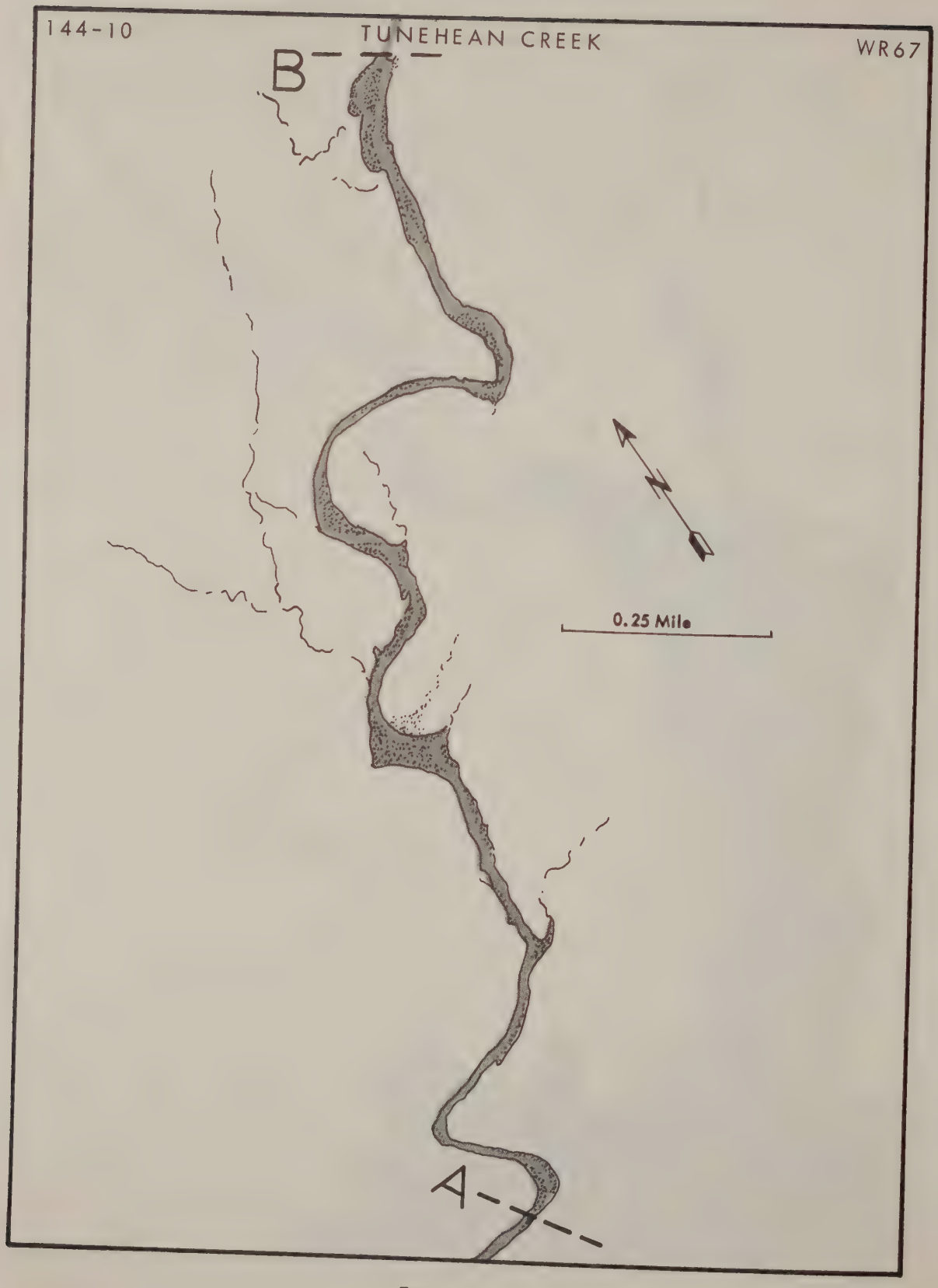
ADF STAT. No.
WR 66

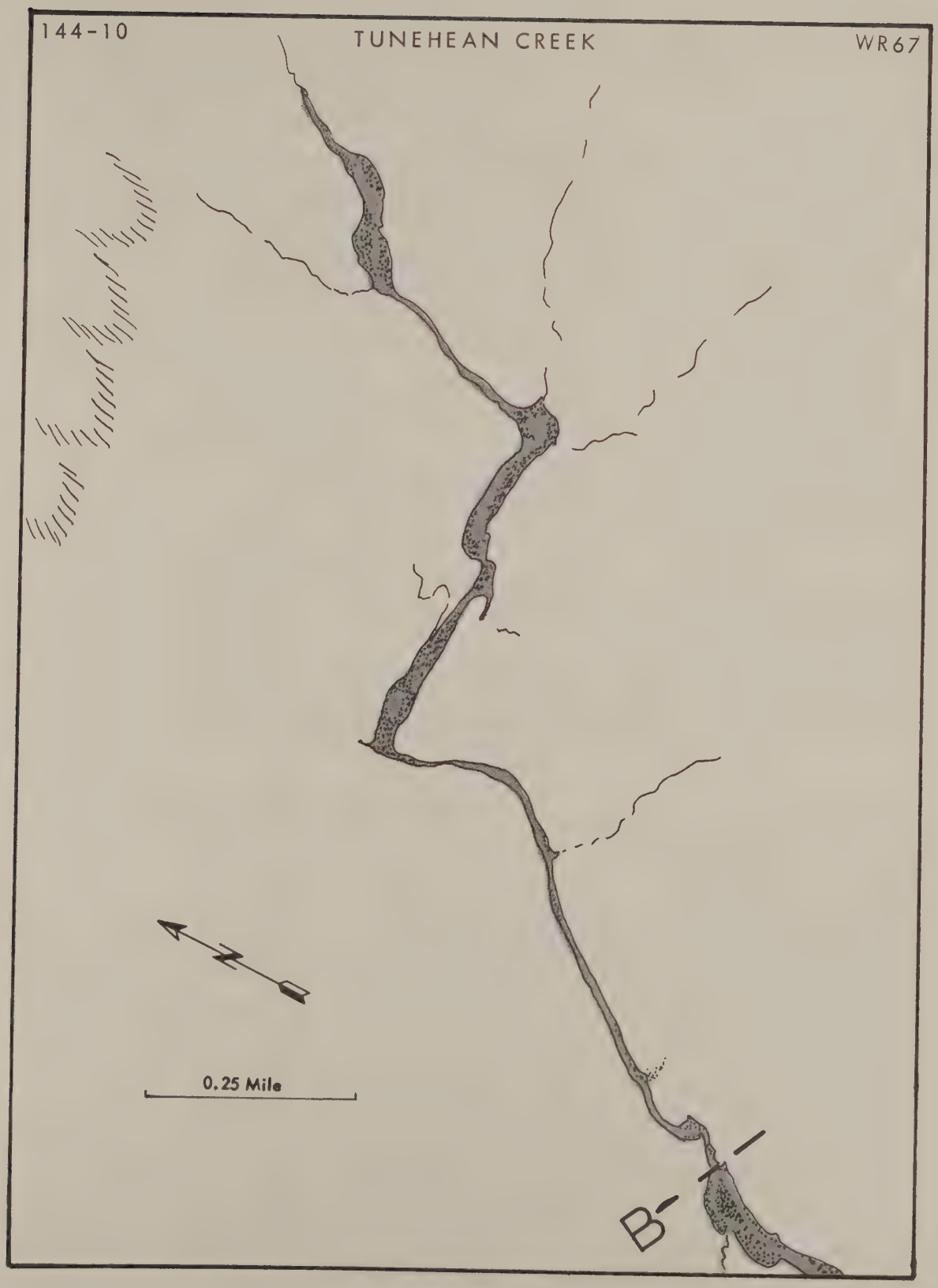
144-10 LOVELESS CREEK - Continued Previous No. 91

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
July 18	G 0.5	FWS						No fish observed
July 19	G 0.5	FWS			5			
July 21	G 0.5	FWS	50		25			
July 28	G 1.7	FWS	518		220			
Aug 1	A 1.0	FWS	800		100			
Aug 9	G 2.5	FWS	5,559		2,155			
Aug 11	G 0.2	FWS	2,500		2,600			
1960								
Aug 24	A 2.0	ADF	300		150			
1961								
	No surveys							
1962								
July 26	A 1.0	ADF						No fish observed
Aug 8	A mouth	ADF						Many jumps, could not estimate
Aug 20	A 1.0	ADF						Pinks present
1963								
Aug 9	A 1.5	ADF	200					2,000 in intertidal zone
Aug 19	A length	ADF	1,500					3,000 in intertidal zone


144-10
TUNEHEAN CREEK
WR67
A-
HT
Logging Road
N
0.25 Mile


144-10
TUNEHEAN CREEK
WR67
B
N
0.25 Mile
A


144-10
TUNEHEAN CREEK
WR67
N
0.25 Mile
B
B'

144-10 TUNEHEAN CREEK ADF STAT. No. WR 67
56°35.9' N. 133°38.7' W. Previous No. 92
FWS No. 68

WRANGELL, SUMNER STRAIT, KEKU STRAIT, 2 miles S. of Devil's Elbow.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE Est. 60,000, 9/18/43
SPAWNING FACILITIES Good to excellent.
STREAM TEMPERATURES Normal range. Observed temperatures: 63°F., 8/10/50; 51°F., 9/4/50; 49°F., 9/20/50; 55°F., 8/14/51; 56°F., 8/25/51; 53°F., 9/12/51; 70°F., 8/13/52; 55°F., 8/23/52; 48°F., 9/9/52; 50.5°F., 9/19/52; 57.5°F., 8/12/53; 55°F., 8/23/53; 55°F., 9/6/53.
VALLEY DESCRIPTION Meanders through a wide, flat valley surrounded by rolling hills. Numerous muskeg areas.
DRAINAGE 36 square miles (polar planimeter). Precipitation-fed. Several small creeks drain into this stream.
STREAM MOUTH IDENTIFICATION Enters an extensive grass flat. An old logging camp is at the upper end of the flats near the high tide mark.
ANCHORAGE Suitable anchorage is found S. of the creek mouth. Rocky Pass and its tributary bays are very foul. Navigate with caution.
TRAILS AND SURVEY ROUTES Wadeable at normal water levels. Gravel bars are numerous. A logging road, grown over in places, follows the right bank for about 2.5 miles.
AERIAL SURVEY NOTES Water usually dark color.

INTERTIDAL ZONE

LENGTH 1.6 miles. AVERAGE WIDTH/DEPTH 40'-60'/10"-20".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel, rock and occasional bedrock outcrops.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Salmon school throughout the lower deep area in the lower part of this zone and in a large pool just below the high tide mark.
SPAWNING AREAS The upper 0.6 mile offers good spawning facilities.
GENERAL NOTES In this area the stream divides many times as it flows through a large grass flat.

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 100'/24".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Coarse gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Long deep areas and pools occur throughout. The lower part has some very large, deep bedrock pools.
SPAWNING AREAS Riffle areas offering excellent spawning facilities are found throughout the distance surveyed.
GENERAL NOTES

144-10

TUNEHEAN CREEK

ADF STAT. No. WR 67
Previous No. 92
FWS No. 68

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 23	G 2.0	FRI						Poor visibility. No estimate
1950								
Aug 10	G 0.6	FRI	528	1	184	2		
Sept 4	G 0.5	FRI						No estimate possible. Flooding
Sept 20	G 0.5	FRI	750	240	0	0		
1951								
Aug 14	G 0.6	FRI	6,210	0	100	0		5,000 in intertidal zone
Aug 25	G 0.6	FRI	24,000	3	770	4		
Sept 12	G 0.6	FRI	5,000		55		40 cohos	15 dead cohos. Peak past
Sept 19	G 0.2	FRI	1,030		5			Many dead chum. All spawning
1952								
Aug 13	G 0.5	FRI	660	0	815	0		Several thousand off mouth
Aug 23	G 0.5	FRI	7,200	0	800			Several thousand off mouth
Sept 9	G 1.0	FRI	2,600	28	0	21		Poor visibility. Peak over
Sept 19	G 1.0	FRI	595	185	0	21		Run is over
1953								
July 30	G 1.0	FWS						No fish seen
Aug 7	G 1.5	FWS	150	0	150	0		300 at mouth
Aug 8	G 0.2	FWS	100	0	150	0		
Aug 11	A	FWS						300 salmon in stream
Aug 12	G 1.0	FRI	300	0	700	0		
Aug 18	G 0.3	FWS	150	0	150	0		
Aug.21	G 1.5	FWS	300	0	500	0		
Aug 23	G 1.0	FRI	34	0	150	0		
Sept 6	G 1.0	FRI	160	0	20	1	158 cohos	
Sept 18	A	FWS						No fish observed
1954								
July 30	G 1.0	FWS	110		93			
Aug 12	A 6.0	FWS	2,000		5,000			
Aug 15	A	FRI	6,500	0	0	0		3,000 off mouth
Aug 16	A	FWS						10,000 in intertidal zone
Aug 16	A	FWS	4,000		10,000			
Aug 24	A	FRI	6,000	0	>300			Many dead
Aug 27	1.0	FWS	28,200		150		175 cohos	
Sept 10	A 6.0	FWS	2,000		5,000			Just above creek mouth
Sept 10	A	FRI	2,000					Some dead pinks, few live chums
Season		FWS	28,000					
1955								
Aug 3	A 3.0	FWS	0	0	0	0		
Aug 17	A 3.0	FWS	0	0	0	0		
Aug 19	A 3.0	FRI	>200	0		0		Some live chums present
Aug 24		FWS	6,200					
Aug 26	A 3.0	FRI	10,000	0	0	0		Visibility poor
Sept 5	A 3.0	FRI	6,000	0		0		7,000 spawning above marker
Sept 6	A 3.0	FWS	25,000	0		0		Some chums and cohos
1956								
Aug 17	G 1.0	FWS	28,500					
Aug 21	A 2.5	FWS						Estimated 30,000 upstream
Aug 26	A mkr	FRI	3,000					
Sept 7	A mkr	FRI	17,000					
Sept 10	A 7.0	FWS	10,000					
Sept 17	A mkr	FRI	50,000					80,000 pinks above marker 5 miles

ADF STAT. No.
WR 67
Previous No. 92
FWS No. 68

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1957								
Aug 6	G 0.5	FWS	150		50			
Aug 6	G 0.7	FWS	30		2			
Aug 8	G 1.0	FWS	40		15			
Aug 11	G 0.7	FWS	100		40			
Aug 13	G 1.0	FWS	1,000		200			
Aug 15	G 1.0	FWS	1,200		1,000			
Aug 18	G 1.0	FWS	5,000		3,000			
Aug 20	G 1.0	FWS	12,000		6,000			
Aug 23	G 1.0	FWS	8,000		4,000		6 cohos	
Aug 25	G 1.5	FWS	1,000		1,500			
Aug 25	A marker	FRI	3,000					1,000 pinks, 7,000 chums above marker
Aug 27	G 1.5	FWS	1,200		1,800			
Aug 29	G 1.5	FWS	1,200		2,800			
Sept 2	A marker	FRI	1,400					2,000 pinks, 3,000 chums above marker
Sept 3	G 1.5	FRI	840		100		12 cohos	
Sept 4	A 2.0	FWS	25,000		20,000			
Sept 14	G 0.5	FRI	50		30		300 cohos	
1958								
July 17	G 2.0	FWS	200		15			
July 22	G 2.0	FWS	350		10			
July 28	G 1.2	FWS	400		6			
Aug 1	G 1.5	FWS	600		12			
Aug 8	G 1.2	FWS	15		8			
Aug 19	G 1.0	FWS	12					
Aug 25	A marker	FWS	2,000					2,000 dead
Season		FWS	7,000		1,000			Total
Aug 29	G	FRI	510		15	4		
Sept 2	A 2.0	FWS	4,500		250			
Sept 16	G 1.0	FWS	100	100				
Sept 19	A marker	FWS						No fish observed. Many dead
1959								
July 18	G 0.5	FWS						No fish observed
July 22	A 2.0	FWS						No fish observed
Aug 10	G 1.0	FWS	35		30			
Aug 22	G	FWS						Water too dark
Oct 2	G	FWS	200					
1960								
July 31	A length	ADF						No fish observed
Aug 24	A 0.5	ADF						150 chums and pinks at mouth
Aug 29	A length	ADF						Jumps at mouth. Water dark
1961								
	No surveys							
1962								
Aug 8	A 1.0	ADF						No pinks observed
Aug 14	G 1.5	ADF					1 cohos	3,000 mixed fish
Aug 20	A 5.0	ADF						Pinks present
1963								
Aug 9	A length	ADF	3,000		1,500			200 in intertidal zone
Aug 19	A length	ADF						17,000 mixed

144-10
56°36.5' N. 133°48.9' W.

ADF STAT. No.
WR 68
Previous No. 93
FWS No. 69

WRANGELL, SUMNER STRAIT, THREEMILE ARM, in cove 5 miles E. of head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug. -Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE The arm offers good anchorage in 5 to 8 fathoms.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 30'/18".
GRADIENT AND VELOCITIES
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 68

144-10 ESCAPEMENT RECORD Previous No. 93

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 23		FWS						500 pinks and chums
1951								
Sept 10	0.7	FWS	3,000		250			
1953								
July 31	A	FWS						No salmon observed
1954								
July 29	0.7	FWS	6		150			
Aug 16	A length	FWS	5,000					
Aug 18	A length	FWS	6,000					
Aug 28	G 0.5	FWS	5,000		1,660			
1955								
Aug 3	A length	FWS	25					
Aug 17	A	FWS						50 pinks in intertidal zone
Aug 24	A	FWS						2,000 pinks in intertidal
Aug 24	A length	FWS	50					
Sept 6	A	FWS						200 pinks in intertidal zone
Sept 13	G 0.5	FWS	150					
1956								
Aug 21	A 0.2	FWS						Fish present
Sept 10	A 0.5	FWS	300		300			
Sept 25	G 0.7	FWS	800					
1957								
Aug 20	A 2.0	FWS	800					
Sept 3	G	FRI-FWS	30	0	80	30	1 coho	Fair spawning area. Stream low
Sept 15	G	FRI-FWS	0	0	30	0		
1958								
July 21	G 0.5	FWS	75		176			
Sept 2	A length	FWS	150					
1959								
Aug 1	A 1.0	FWS						No fish observed
1960								
	No surveys							
1961								
Aug 17	A	ADF	few		0			1,500 pinks in intertidal area and several schools off mouth
1962								
Aug 13	mouth	ADF						Few jumps at mouth
Aug 20	A 1.0	ADF						No fish observed
Aug 29	A 1.0	ADF						A few pinks seen
1963								
Aug 19	A 2.0	ADF						Dead chums; poor vision
Aug 22	G 0,5	ADF			2,000			Good showing

144-10
56°36.4' N. 133°56.2' W.

ADF STAT. No.
WR 69
Previous No. 94
FWS No. 70

WRANGELL, SUMNER STRAIT, THREEMILE ARM, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sept.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES
VALLEY DESCRIPTION Heavily timbered.
DRAINAGE 4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor well out in bay at head. Approach to left side where banks are fairly steep.
TRAILS AND SURVEY ROUTES Easily waded.
AERIAL SURVEY NOTES Heavy overstory.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel, small rock, some boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

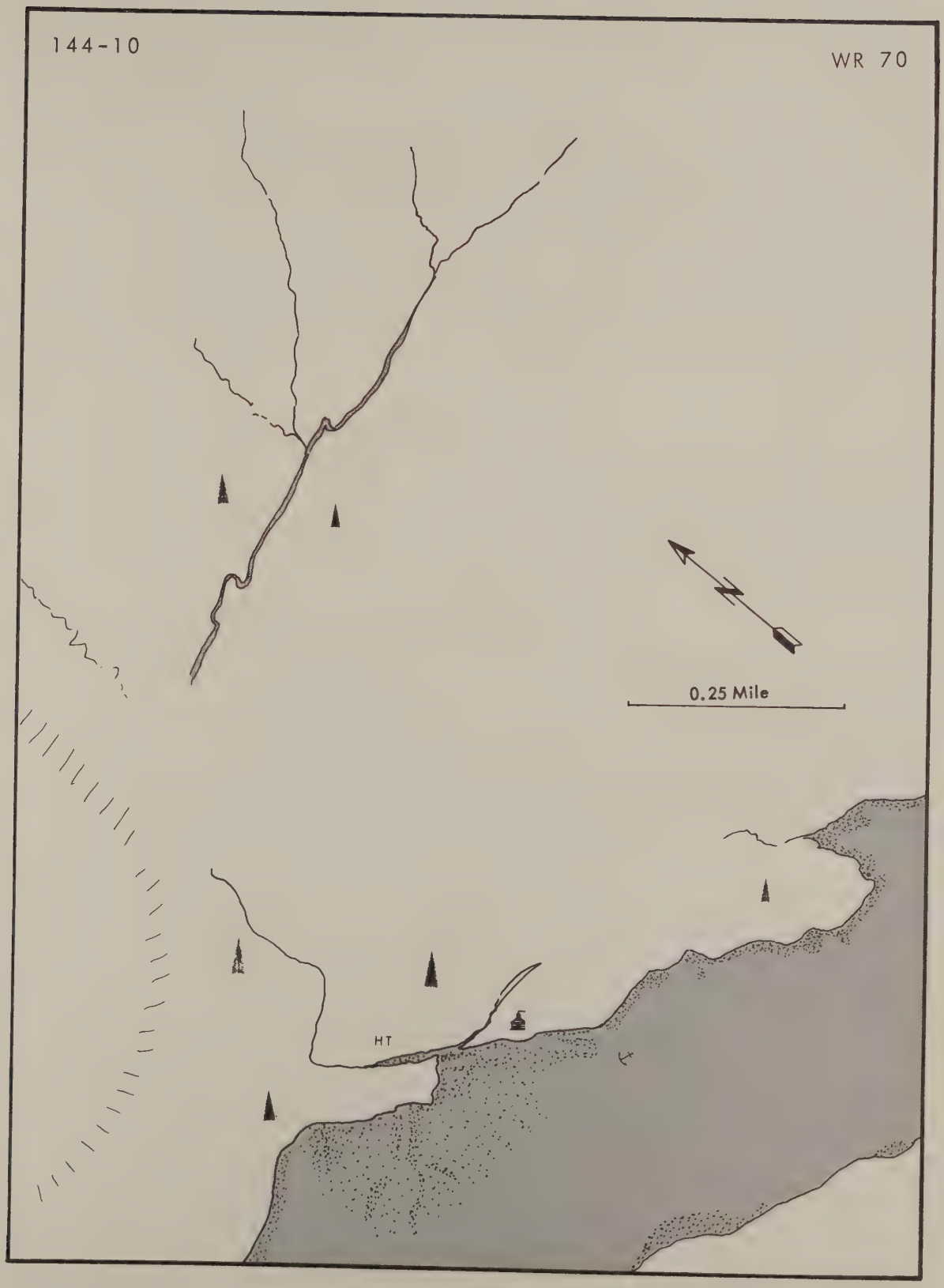
LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/8".
GRADIENT AND VELOCITIES Slight.
BOTTOM Fine gravel and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES The FWS conducted environmental studies on this stream in 1958.

ADF STAT. No.
WR 69

144-10 ESCAPEMENT RECORD Previous No. 94

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 23		FWS			2,000			
1951								
Sept 10	0.7	FWS	2,000		500			
Sept 10	G 0.7	FRI	1,480	37	341	47		
1953								
July 31	A	FWS						50 pinks in stream 40 at mouth
Sept 18	A	FWS						No fish observed
1954								
Aug 12	A	FWS	3,000					
Aug 16	A	FWS	4,000					
Aug 28	G	FWS			129			
1955								
Aug 17	A length	FWS						50 pinks in intertidal zone
Aug 24	A length	FWS						2,000 pinks in intertidal zone
Sept 5	A length	FWS						200 pinks in intertidal zone
1956								
Aug 21	A 0.5	FWS	900					
Aug 29	A length	FWS	2,500					In school at mouth
Sept 10	A 0.5	FWS	250					
Sept 26	G 0.7	FWS			25			
1957								
Aug 7	A length	FWS	250					
Aug 16	A length	FWS	600					
Sept 3	G 0.5	FRI	30		80		1 coho	
Sept 15	G 0.5	FRI-FWS			47			
1958								
Aug 18	G length	FWS			900			
Aug 19	A length	FWS	400					
Aug 25	G length	FWS	109		225			
Aug 27	G length	FWS			1			500 salmon in intertidal
1959								
Aug 1	A 1.0	FWS	500					
Aug 21	A 1.0	FWS	350		100			
1960								
Aug 29	A	ADF						300 fish in intertidal area
Sept 6	A	ADF						No fish observed
1961								
Aug 17	A	ADF						1,000 fish off mouth
1962								
Aug 20	A length	ADF						200-300 in intertidal zone
Aug 29	A 1.0	ADF						Few pink seen, 5,000 in intertidal zone
1963								
July 31	G 0.2	ADF						2,000 chums in intertidal
Aug 22	G 0.5	ADF			500			1,000 in intertidal; 1,000 dead
Aug 29	A length	ADF						3,500 at mouth


144-10
WR 70
N
0.25 Mile
HT

144-10
56°34.3' N. 133°54.6' W.

ADF STAT. No.
WR 70
Previous No. 95
FWS No. 71

WRANGELL, SUMNER STRAIT, SECLUSION HARBOR, SALT LAGOON, 0.5 mile from head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.)
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Limited.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor near the E. shore opposite the cabin, between the beach and the first rock.
TRAILS AND SURVEY ROUTES Easily waded.
AERIAL SURVEY NOTES Too brushy for survey.

INTERTIDAL ZONE

LENGTH Short.
AVERAGE WIDTH/DEPTH 30'/12'.
GRADIENT AND VELOCITIES Moderate.
BOTTOM Coarse gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION Edge of woods.
SCHOOLING AREAS Off mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 10'-15'/4"-6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mixed gravel and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES None.
SCHOOLING AREAS Several pools.
SPAWNING AREAS Good riffles.
GENERAL NOTES This watershed to be logged in 1963-1964. Timber is to be left adjacent to the stream.

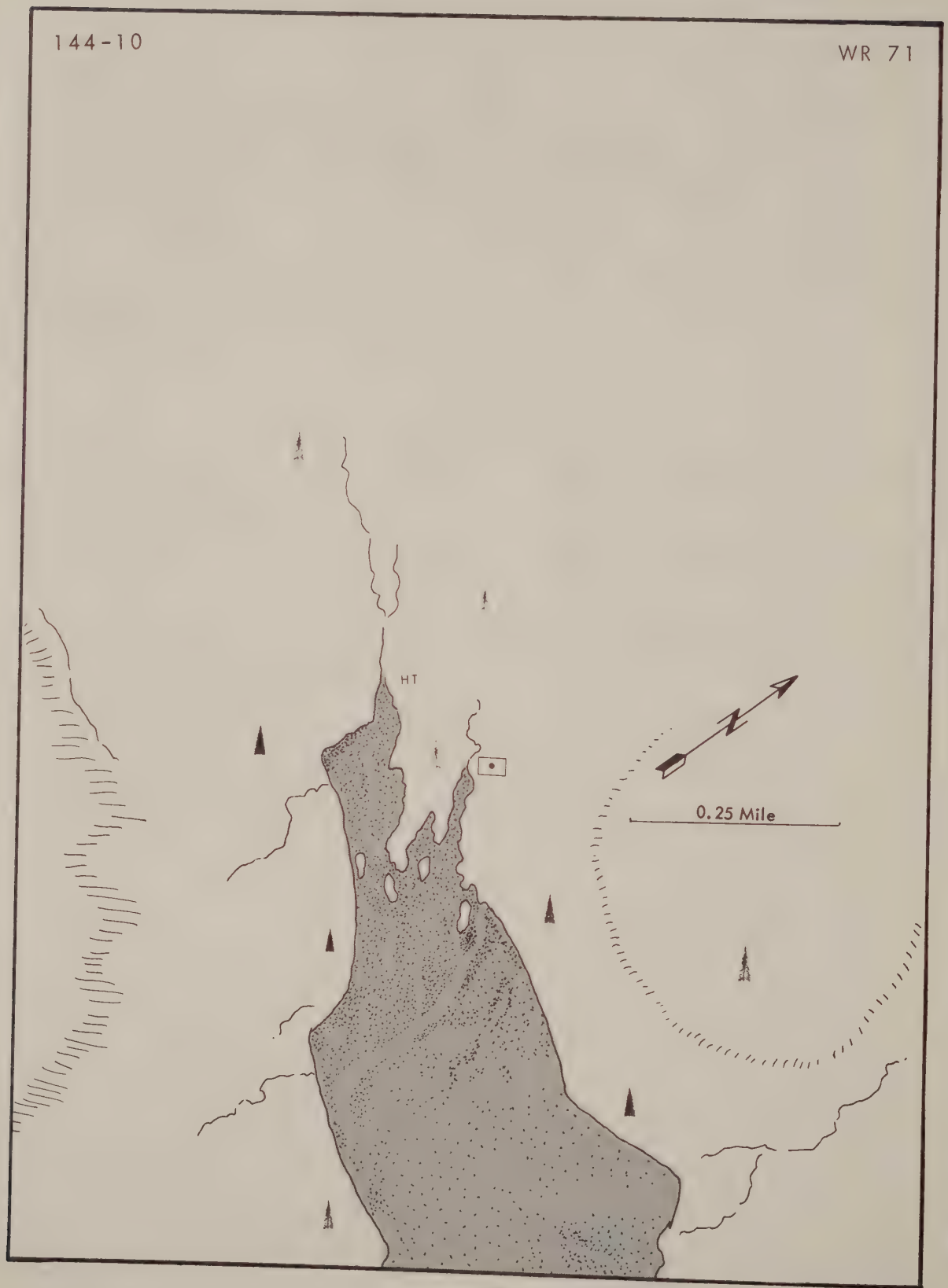
ADF STAT. No.
WR 70
144-10 ESCAPEMENT RECORD Previous No. 95

[Counts made by ground surveys are designed by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 28	G 0.5	FRI	825	2	8	1		
Sept 11	0.2	FWS	5,000		200			
1953								
Sept 18	G 0.3	FWS						No salmon observed water black
1954								
Aug 10		FWS						No salmon observed water low
1955								
Aug 17	A 0.3	FWS	0		0			
Aug 24	A 0.3	FWS	9,000		1,000			
Sept 6	A 0.3	FWS	10,000					
Sept 13	G 0.6	FWS	4,000		300			
1956								
Aug 17	A	FWS	5,000					
Aug 29	A length	FWS	6,000					
Sept 10	A length	FWS	15,000		15,000			
1957								
Aug 15	A length	FWS	600					1,200 fish at mouth
Sept 2	G 0.5	FRI	140		90			
Sept 4	A length	FWS	10		25			
Sept 15	G 0.5	FRI-FWS	37		40			
1958								
Aug 11	A to lake	FWS	500		10			
Aug 21	G 200'	FWS	6		15			
Aug 25	A length	FWS	250					
Sept 9	A length	FWS	900					
Sept 16	G 0.2	FWS	95		2			
1959								
Aug 11	A 0.5	FWS	800					300 off mouth
1960								
	No surveys							
1961								
	No surveys							
1962								
Aug 20	A mouth	ADF						No fish observed

144-10

WR 71



144-10
56° 34. 2' N. 133° 55' W.

ADF STAT. No.
WR 71
Previous No. 96

WRANGELL, SUMNER STRAIT, SECLUSION HARBOR, SALT LAGOON, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle, Aug. -Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 56° F., 8/12/52; 50° F., 8/23/52; 49° F., 9/19/52; 48° F., 8/12/53; 51.5° F., 8/23/53; 51° F., 9/6/53.
VALLEY DESCRIPTION
DRAINAGE 6.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Refer to WR 70.
TRAILS AND SURVEY ROUTES Brush bordered.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 20'/10".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel and mud in lower part.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A few pools.
SPAWNING AREAS Excellent spawning facilities in the upper section.
GENERAL NOTES Flows through a grass flat for most of its length.

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/10".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES The stream forks 1 mile above the mouth; both forks go to small lakes.
SCHOOLING AREAS
SPAWNING AREAS Riffles with excellent spawning gravel are found throughout.
GENERAL NOTES This section continually splits and rejoins.

ADF STAT. No.
WR 71
144-10 Previous No. 96

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 24		FWS	20		300			
1951								
Aug 28	G 0.5	FRI	6,000	0	100	10	10 cohos	
Sept 11	G 0.2	FRI	5,000	50	50	10		
1952								
Aug 12	G 0.2	FRI	405	0	42	0		Several hundred at mouth
Aug 23	G 0.2	FRI	3,390	0	480	1		Jumps in bay
Sept 19	G 0.2	FRI	460	31	6	0		Run appears to be over
1953								
Season		FWS	250					
July 31	A	FWS						Water very low
Sept 6	G 0.2	FWS	250		600			200 chums in lagoon
1954								
Aug 10	A length	FWS	50					
1955								
Aug 24	A length	FWS	9,000		1,000			
Sept 6	A length	FWS						10,000 salmon in stream
Sept 13	G 0.7	FWS	4,000		300			
1956								
Sept 10	A length	FWS						15,000 salmon in stream
1957								
Sept 2	G 0.5	FRI	140	0	90	0		Stream low
Sept 15	G 0.5	FRI	37	0	40	0		Stream still very low
1958								
Aug 11	A to lake	FWS	500		10			
Aug 21	G 0.04	FWS	6		15			
Aug 25	A length	FWS	250					
Sept 9	A length	FWS	900					
Sept 16	G 0.2	FWS	95		2			
1959								
Aug 11	A 0.5	FWS	800					300 off mouth
1960								
	No surveys							
1961								
	No surveys							
1962								
	no record							
1963								
July 30	Mouth	ADF						No fish observed
Aug 19	A length	ADF	2,000					1,000 in intertidal; dead chums
Aug 22	G 0.5	ADF	5,000					1,500 at mouth; 1,500 mixed in intertidal zone

144-10
56° 28' N. 133° 52.5' W.

ADF STAT. No.
WR 72
Previous No. 98

WRANGELL, SUMNER STRAIT, 1 mile S. of entrance to No Name Bay.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 3.0 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor at 5 fathoms in cove, 0.12 mile off stream mouth.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.6 mile.
AVERAGE WIDTH/DEPTH 10'/10".
GRADIENT AND VELOCITIES
BOTTOM Mostly bedrock and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 21	G 0.7	FWS	1	0	13	3		
1954								
Aug 10		FWS						Stream dried up
1955								
Aug 13	G 0.5	FWS						No fish observed
Sept 22	A length	FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							
1962								
Aug 8	A bay	ADF						No fish observed
Aug 14	Mouth	ADF						No fish observed

144-21
56°25.9' N. 133°56.6' W.

ADF STAT. No.
WR 73
Previous No. 99

WRANGELL, SUMNER STRAIT, ALVIN BAY, Head.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH 10'/3".

ADF STAT. No.
WR 73

144-21 ESCAPEMENT RECORD Previous No. 99

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 19		FWS	321					
1951								
Aug 6		FRI	1,500		30		20 cohos	
Aug 18		FRI	2,000					At mouth of 2 streams
Aug 27	G 0.1	FRI	0		0			Jumps off mouth
Sept 19	G 0.7	FRI	1,134		32		1 coho	
1953								
July 31	A 0.5	FWS						No fish observed
Sept 8	A 0.5	FWS						No fish observed
1955								
Aug 13	A 0.5	FWS						No fish observed
Aug 17	A 0.5	FWS						No fish observed
Sept 22	A 0.5	FWS						No fish observed
1956								
Sept 14	G 0.7	FWS	45					200 at mouth
Sept 26	G to falls	FWS	150					Right side
Sept 26	G 0.7	FWS	225		25			Left side
1957								
Aug 7	A length	FWS						No fish observed
1958								
Sept 2	A length	FWS	25					
Sept 16	G	FWS	1					
1959								
	No data							
1960								
	No surveys							
1961								
	No surveys							

144-21
56° 26. 2'N. 133° 56' W.

ADF STAT. No.
WR 73A
Previous No. 99

WRANGELL, SUMNER STRAIT, ALVIN BAY, 0.5 mile from head on N. shore.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 3.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate to swift.
BOTTOM Very rocky.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Rocky with limited area.
GENERAL NOTES

144-21

ADF STAT. No.
WR 73A
Previous No. 99

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 18		FWS						2,000 at mouth
Aug 18	G 0.2	FRI	40	0	0	0		
Aug 27	G 0.1	FRI	35	0	0	0		
Sept 19	0.7	FWS	3,000		50		1 coho	
Sept 19	G 0.2	FRI	1,615					
1953								
Season		FWS						No fish observed
1954								
Aug 10	A	FWS						No fish observed
1955								
Aug 13	G 0.5	FWS						No fish observed
Aug 17	A length	FWS						No fish observed
Sept 22	A length	FWS						No fish observed
1956								
Sept 14	G 0.7	FWS	245					
Sept 26	G to falls	FWS	150					Right side
Sept 26	G 0.7	FWS	225		25			
1957								
Aug 7	A length	FWS						No fish observed
1958								
Sept 2	A length	FWS	25					200 pinks at mouth
Sept 16	G 0.1	FWS	1					No dead salmon
Sept 29	A length	FWS						No fish observed
1959								
	No data							
1960								
	No surveys							
1961								
Aug 17	A 0.1	ADF						A few fish off mouth
1962								
Aug 14	Mouth	ADF						No fish observed
Aug 20	A	ADF						150 at mouth
Sept 29	A	ADF						1,500 on intertidal zone

ADF STAT. No.
WR 74
No previous No.

144-21
56°24.2' N. 133°5' W.

WRANGELL, SUMNER STRAIT, REID BAY, head of N. arm.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Spawning areas are limited but could handle several hundred salmon if water level was higher.
STREAM TEMPERATURES No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 0.47 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 15'/2".
GRADIENT AND VELOCITIES
BOTTOM Gravel and algae.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A very small stream twisting through continuous gravel bars and numerous windfalls.

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 4'/2".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

144-21

ADF STAT. No.
WR 74
No previous No.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Season		FWS						Poor
1954								
Aug 29		FWS	1,000					
1956								
Aug 21	A 0.1	FWS						No fish observed
Sept 10	A length	FWS						No fish observed
Sept 26	G 1.2	FWS					1 coho	No salmon observed
1958								
Sept 16	G 0.5	FWS	3					
1959								
Aug 11	A 0.5	FWS						No fish observed
1960								
	No surveys							
1961								
Aug 17	A	ADF	100	0	0	0		200 fish at mouth

144-21
56°24' N. 133°55.3' W.

ADF STAT. No.
WR 74A
No previous no.

WRANGELL, SUMNER STRAIT, REID BAY, 0.2 mile from head on N. arm on W. shore.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 0.95 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 20'/2".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel with algae in lower part.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS One hundred fifty yards of spawning gravel at the upper end.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 6'/3".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Broken rock and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A very small stream with poor spawning facilities in upper area.

ADF STAT. No.
WR 74A

144-21 ESCAPEMENT RECORD No previous No.

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31			0	3				Off mouth
1955								
Sept 12	G 0.7	FWS	80		25			
1956								
Sept 10	A length	FWS						200 salmon
1957								
	No records							
1958								
Sept 2	A length	FWS	25					
1959								
Aug 11	A 2.0	FWS						No fish observed
1960								
	No surveys							
1961								
Aug 17	A mouth	ADF						400 at mouth
1962								
Aug 20	A	ADF						A few pink. Too brushy for survey

144-21
56°23.2' N. 133°55' W.

ADF STAT. No.
WR 75
Previous No. 100

WRANGELL, SUMNER STRAIT, REID BAY, in bight 1.5 miles S. of head of N. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept.
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the bay between two small islands which lie near the beach and have gravel bars running to the beach at low tide.
ANCHORAGE Anchor on the W. side of the peninsula point on the S. side of the bay entrance. Enter the bay with caution. There are dangers off the points at the entrance.
TRAILS AND SURVEY ROUTES Travel up the stream is easy. Numerous game trails along the banks.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 30'/3".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel with much brown algae.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Possibly the upper 300 to 400 yards could be used for spawning.
GENERAL NOTES Meanders through a grassy flat.

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 6' -30'/2"-10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Small gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Numerous holes formed by downfall logs.
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31	G 0.2	FRI	105		25			Upper stream
1951								
Aug 24	G 1.5	FRI	550	0	25	0		
Aug 24	0.2	FWS	341					
Sept 13	G 0.5	FRI	321	0	12	0		
1954								
Aug 10	A	FWS						No salmon. Low water
1955								
Sept 22	A 0.5	FRI	0	0	0			Small stream. No salmon observed

144-21
56°23.2' N. 133°55.1' W.

ADF STAT. No.
WR 75A
Previous No. 100-

WRANGELL, SUMNER STRAIT, REID BAY, in bight 1.6 miles S. of head of N. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES 200 yards of tidal spawning area.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE <1 square mile.
STREAM MOUTH IDENTIFICATION Common intertidal to WR 75.
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 15'/6".
GRADIENT AND VELOCITIES
BOTTOM Rocky.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Little spawning area above intertidal zone.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 17	G	FRI	30	0	20	0		
Sept 13	G 0.1	FRI	341	0	8	0		
1960								
	No surveys							
1961								
	No surveys							

144-21
56°22.5' N. 133°35.8' W.

ADF STAT. No.
WR 76
Previous No. 101

WRANGELL, SUMNER STRAIT, REID BAY, head of W. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES None observed.
VALLEY DESCRIPTION
DRAINAGE 0.9 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 3'/2".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel and brown algae.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES The intertidal zone is straight and with the stream higher would be fairly rapid.

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 3'/1".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel and small broken rocks.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A very small stream, with numerous holes and some available spawning area.

ADF STAT. No.
WR 76

144-21 ESCAPEMENT RECORD Previous No. 101

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31	G 0.1	FRI	0	0	0	0		Very small stream
Sept 25	G 0.1	FRI	600	86	13	23		
1950								
Sept 10		FWS	100		150			
1951								
Aug 18	0.5	FWS						1,500 at mouth
Sept 13	1.0	FWS	1,000		200			
1954								
Aug 10	A	FWS						No salmon, low water
1955								
Aug 29		FWS	1,000					
1958								
Aug 24	G 0.5	FWS	10		20			
Aug 25	A length	FWS			50			
Aug 8-30		FWS	1,000		500			
Sept 10	A length	FWS	250		100			
Sept 17	G 0.1	FWS	20		2			
Sept 29	A length	FWS	100		50			
1959								
Aug 11	A 0.5	FWS						No salmon observed
1960								
	No surveys							
1961								
Aug 17	A	ADF						400 fish observed off stream mouth
1962								
Aug 29	A	ADF						Brush prevents survey

144-21
56°22.6' N. 133°55.7' W.

ADF STAT. No.
WR 76A
Previous No. 101-

WRANGELL, SUMNER STRAIT, REID BAY, 0.1 mile N. of head of W. arm.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 1.5 square miles.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Fairly rough travel.
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH 30'/15".

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Numerous holes.
SPAWNING AREAS Some available spawning areas.
GENERAL NOTES

AVERAGE WIDTH/DEPTH 20'/6".

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31	G 0.1	FRI						No fish in the stream or off the mouth. Very small stream
1951								
Aug 18	G 0.5	FRI	100	0	0	0		Jumps at mouth
Sept 13	G 0.2	FRI	1,400	0	25	0		
1960	No surveys							
1961	No surveys							

144-22
56°18.5' N. 133°53.9' W.

ADF STAT. No.
WR 77
Previous No. 103

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, 2.3 miles from entrance on N. shore.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. After Sept. 15.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Cold range. Observed temperatures: 49.5°F., 9/5/50; 50°F., 9/15/50; 45.5°F., 9/28/50.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters a marshy meadow three-fourths of a mile in diameter S.-SW. of the old cannery site.
ANCHORAGE A good anchorage may be found either in the S. arm or on the N. side of the small island lying N. of Edward Island.
TRAILS AND SURVEY ROUTES Game trails follow the banks, but it is easiest to travel up the stream.
AERIAL SURVEY NOTES Too brushy for good surveys.

INTERTIDAL ZONE

LENGTH 0.2 mile.
AVERAGE WIDTH/DEPTH 20'-30'/6"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Small gravel, coarse sand, and bedrock near upper limit.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 50'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and small rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Many deep holes, some of which were formed by piles of downfall trees, offer facilities for schooling salmon.
SPAWNING AREAS
GENERAL NOTES

144-22

ADF STAT. No.
WR 77
Previous No. 103

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 25	G 1.0	FRI	900	4	0	0	6 cohos	
1950								
Sept 3		FWS	315					
Sept 5	G 0.6	FRI	312	4	4	0		
Sept 15	G 0.6	FRI	88	0	7	0		
Sept 28	G 0.6	FRI	23	0	0	0		
1951								
Sept 19	0.7	FWS	452		43			
1953								
Aug 1	A 0.5	FWS						No salmon observed
1954								
Aug 10		FWS						No salmon, low water
1955								
Sept 4	A 0.5	FWS	0	0	0	0		No salmon observed
Sept 12	G 1.5	FWS	165	0	0	0		Fish in fair condition
1956								
Aug 29	A	FWS						No salmon observed
Sept 10	A	FWS						600 fish
Sept 26	G lake	FWS	1,200		10			
Sept 26	G 0.7	FWS	800					
1957								
Aug 11	G 1.0	FWS	50					
Aug 15	G 0.5	FWS	30					
Aug 15	G 1.0	FWS	50					
Aug 21	G 1.0	FWS	80		80			
1958								
Aug 28	G 1.0	FWS	20					
Aug 30	G 1.0	FWS	20					
Sept 9	A length	FWS	200		50			100 salmon at mouth
1959								
Aug 11	A 2.0	FWS						No fish observed
1960								
Jul 31	A 0.1	ADF						No salmon observed
1961								
Aug 9	A 0.1	ADF						4,000 fish off mouth
Aug 17	A 0.1	ADF						Jumpers off mouth
1962								
Jul 26	A mouth	ADF						No salmon observed
Aug 1	A	ADF						200 salmon at mouth
Aug 13	A mouth	ADF						Few salmon at mouth
1963								
Jul 29	A	ADF						2,000 at mouth
Aug 3	G 0.5	ADF	5,000		200			3,000 at mouth; 3,000 mixed in intertidal
Aug 18	G 0.5	ADF	7,500					1,500 at mouth; 3,500 mixed in intertidal zone

144-22
56° 22.8' N. 134°00.1' W.

ADF STAT. No.
WR 78
Previous No. 104

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, head of N. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug. Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION A heavily forested valley with rolling hills.
DRAINAGE 5.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Good anchorage can be obtained off the mouth between the island and the right bank.
TRAILS AND SURVEY ROUTES The stream is easily waded, but no trails follow its course.
AERIAL SURVEY NOTES Heavy overstory makes aerial survey difficult.

INTERTIDAL ZONE

LENGTH 200-300 yards. AVERAGE WIDTH/DEPTH 10'-20'/6"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Fine gravel and gravel rubble.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS School below the low tide mark.
SPAWNING AREAS The upper 200 yards contains good spawning gravel.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile. AVERAGE WIDTH/DEPTH 6'-10'/6"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS One partial falls barrier about half a mile upstream.
TRIBUTARIES None reported.
SCHOOLING AREAS Few holes are available for schooling salmon.
SPAWNING AREAS The spawning gravel is good in the distance surveyed but limited by the stream's small size.
GENERAL NOTES Numerous windfalls.

144-22 ESCAPEMENT RECORD ADF STAT. No. WR 78
Previous No. 104

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31	G 0.1	FRI	6	103	6	0		Small stream, water low
1951								
Sept 18	0.7	FWS	1,320		6			
Oct 5	G 0.5	FRI	490	103	4		17 cohos	Peak past. None off mouth
1954								
Aug 6		FWS	100					
Aug 10		FWS						No salmon, water low
Aug 12		FWS	450					
1955								
Aug 23	A 0.5	FWS	100	0	0	0		Visibility excellent
Sept 12	A 0.5	FWS	911	0	0	0		Good spawning area
Sept 22	A 0.5	FWS	900	0	0	0		
1956								
Aug 17	G length	FWS						10,000-15,000 chums
Sept 10	A length	FWS						Few hundred fish
Sept 26	G 1.0	FWS	1,100		40			
1957								
Aug 13	G 1.0	FWS						No dead
Aug 23	G 1.0	FWS	1		31			
1958								
Aug 24	G 0.5	FWS	10		20			
Aug 25	G length	FWS			50			
Aug 8-30		FWS	1,000		500			
Sept 10	A length	FWS	250		100			
Sept 17	G 0.1	FWS	20		2			
Sept 29	A length	FWS	100		50			
1959								
	No record							
1960								
July 31	A mouth	ADF						No salmon observed
1961								
Aug 9	A mouth	ADF						2,000 schooled fish at mouth
Aug 17	A mouth	ADF						Several thousand off mouth
Sept 4	G 0.7	ADF	1,000	0	2,000	0		Many dead chums
1962								
Aug 29	A 0.2	ADF						8,000 at mouth, 400 in intertidal zone
Sept 5	G 0.5	ADF	900		100			500 at mouth
1963								
July 21	G 0.5	ADF						No fish observed
July 29	A	ADF						No fish observed
Aug 4	G 0.2	ADF						No fish observed
Aug 18	G 0.7	ADF	100		350			1,500 mixed in intertidal zone
Aug 28	A	ADF						4,000 at mouth

144-22
56°21.3' N. 134°00.7' W.

ADF STAT. No.
WR 79
Previous No. 105

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, 2 miles S. of head of N. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2 square miles (Aerial).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Refer to WR 77.
TRAILS AND SURVEY ROUTES None.
AERIAL SURVEY NOTES Impossible to survey due to small size.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Shale and large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Below low tide location. Off mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.1 mile. AVERAGE WIDTH/DEPTH 15'/6".
GRADIENT AND VELOCITIES Swift.
BOTTOM Boulders and shale bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES None.
SCHOOLING AREAS Small pools.
SPAWNING AREAS Very limited.
GENERAL NOTES Stream is a series of cascades and falls over boulders and bedrock.

144-22

ADF STAT. No.
WR 79
Previous No. 105

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 31	G 0.2	FRI	0	0	0	0		Few jumps at mouth
1952								
Aug 6		FWS						No fish observed
1953								
Sept 8	A 0.5	FWS	0	0	0	0		
1954								
Aug 13	A	FWS	50					
Aug 30	A length	FWS	460		1			
1955								
Aug 24	A 0.5	FWS	0	0	0	0		
Sept 4	A 0.5	FWS	500	0	0	0		Stream damaged by logging
Sept 12	A 0.5	FWS	100	0	400	0		50% pinks, 50% chums in poor condition
1956								
Sept 10	A length	FWS						600 indefinite species
Sept 26	G to lake	FWS	1,200		10			
1957								
Aug 15	G 0.2	FWS	0		0			
Aug 23	G 1.0	FWS	5		3			
1958								
Aug 25	G 1.0	FWS	200					
Aug 8-30		FWS	250		20			
Sept 10	A lake	FWS	300		50			
1959								
Aug 21	A	FWS						No fish observed
1960								
July 31	A mouth	ADF						No salmon observed
1961								
Aug 9	A	ADF						400 fish at mouth
Aug 17	A	ADF						Jumpers at mouth
1962								
Aug 7	A mouth	ADF						250 at mouth
Aug 15	G to lake	ADF	12					500 at mouth
1963								
Aug 4	G length	ADF	2					300 in intertidal zone; 1,000 fish at mouth
Aug 18	G length	ADF	700				100 reds	100 in intertidal zone
Aug 28	A mouth	ADF						300 at mouth

144-22
56°21.3' N. 134°00.4' W.

ADF STAT. No.
WR 79A
No previous No.

WRANGELL, SUMNER STRAITS, PORT BEAUCLERC, 2.5 miles S. of head of N. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good spawning gravel above bedrock area around high tide.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 0.12 square mile (Aerial).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Small stream.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 10'-15'/4".
GRADIENT AND VELOCITIES
BOTTOM Gravel fair in lower portion.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Good spawning gravel above bedrock area around high tide.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 11		FRI						No fish observed
1960								A few chum jump in bay
	No surveys							
1961								
	No surveys							

144-22
56°19.1' N. 134°01.4' W.

ADF STAT. No.
WR 80
Previous No. 106

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, 4 miles S. of head of N. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle-late.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 2 square miles (Aerial).
STREAM MOUTH IDENTIFICATION Stream enters behind unnamed island across from Walters Island.
ANCHORAGE
TRAILS AND SURVEY ROUTES None.
AERIAL SURVEY NOTES Poor due to small size and overstory.

INTERTIDAL ZONE

LENGTH 0.8 mile.
AVERAGE WIDTH/DEPTH 30'/24".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Good gravel abundant.
LOW TIDE LOCATION
HIGH TIDE LOCATION Edge of timber.
SCHOOLING AREAS Large pools in lower intertidal area; several small pools in the upper area.
SPAWNING AREAS Little spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 10'/3".
GRADIENT AND VELOCITIES Sluggish.
BOTTOM Fair gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Many small pools.
SPAWNING AREAS Riffles throughout stream.
GENERAL NOTES

144-22

ESCAPEMENT RECORD

ADF STAT. No.
WR 80
Previous No. 106

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 11	G 0.1	FRI	0	0	0	0		
Sept 18	G 0.7	FWS	3,100	0	350	0		
1952								
Aug 28	A	FWS						100 in school at mouth
1953								
Aug 1	A	FWS						No fish seen. Water low
1954								
Aug 10		FWS						No fish seen. Water low
1955								
Sept 4	A length	FWS	10					
Sept 12	G 1.0	FWS	500		490			
1956								
Sept 10	A length	FWS						200 indefinite species
Sept 26	G 1.0	FWS	2,700		750			
1957								
Aug 14	G 0.2	FWS						No salmon observed
Aug 15	G 0.2	FWS	25					
Aug 15	G 0.2	FWS	25					20-30 at mouth
Aug 23	G 1.0	FWS	373		75			
1958								
Aug 15	G 0.5	FWS	10		20			
Aug 25	A length	FWS	500					2,000 pinks at mouth
Aug 26	G 1.0	FWS	250		200			
Aug 15-30		FWS	2,000		1,500			
Sept 10	A length	FWS	1,200		250			
Sept 17	G 0.5	FWS	150		280			
Sept 22	A length	FWS	500		100			
1959								
Aug 21	A length	FWS	100					
1960								
July 31	A mouth	ADF						No fish observed
1961								
Aug 9	A 0.3	ADF						500 fish at mouth
Aug 17	A	ADF						Several schools at mouth
Sept 4	G 0.5	ADF	800		3,000			Many dead. Good distribution for a small stream
1962								
Aug 7	A mouth	ADF						No fish observed
Aug 13	A 1.0	ADF						6,000 salmon at mouth
Aug 15	G 0.5	ADF	6		3			2,000 salmon at mouth
Aug 20	A	ADF						6,000-7,000 at mouth
Aug 22	G 0.7	ADF	900		85			15,000 in intertidal zone
Aug 29	A mouth	ADF						20,000 at mouth, 5,000 in intertidal zone
1963								
July 21	G 0.5	ADF						No fish observed
July 29	A 1.0	ADF						No fish observed
Aug 18	G 0.5	ADF	10		10			250 mixed in intertidal zone
Aug 28	A length	ADF	few					

144-22
56° 14.4' N. 133° 58.9 W.

ADF STAT. No.
WR 81
Previous No. 107

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, head of S. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Cold range. Observed temperatures: 51° F., 9/5/50; 49° F., 9/15/50; 45.5° F., 9/28/50; 50° F., 8/16/51; 51° F., 8/26/51; 47° F., 10/15/51.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 1 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION Flows through grass flats in SE. corner of bay.
ANCHORAGE Refer to WR 77.
TRAILS AND SURVEY ROUTES A bulldozed road follows the right bank for about three-fourths of a mile.
AERIAL SURVEY NOTES Aerial survey difficult due to small size of stream and brush.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 15'/9"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS No pools.
SPAWNING AREAS The gravel in this area is algae covered except in the upper 100 yards where there is good spawning gravel.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 10'-12'/4"-6".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Fine gravel to large rocks.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Small pools at the head of tidewater.
SPAWNING AREAS The first half mile above the high tidemark has the best spawning facilities above this, there is a series of rapids, pools, and falls.
GENERAL NOTES Logging operations have been carried on here in past years.

144-22 ESCAPEMENT RECORD ADF STAT. No. WR 81
Previous No. 107

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Mile	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 1	G 0.6	FRI	0	0	0	0		One jump off mouth
Sept 24	G 0.6		1,700	44	454	90		
1950								
Sept 4		FWS	453		105			
1951								
Aug 16	G 0.5	FRI	0	0	0	0		
1953								
Aug 1	A	FWS						Poor rating, water low
1954								
Aug 10		FWS						No salmon, water low
1955								
Aug 24	A 0.5	FWS	0	0	0	0		
Sept 4	A 0.5	FWS	500	0	0	0		Plus 1,000 pinks off mouth
Sept 12	A 0.5	FWS	250	0	175	0		70 schooled at base of rapids
1956								
Sept 10	A	FWS						300 indefinite species
Sept 13	G 1.0	FWS	1,700		10			1,000 pinks in tideflats
1957								
Aug 14	G 0.5	FWS	20					
Aug 23	G 0.5	FWS	53		57			
1958								
Aug 8-30		FWS			1,000			
Sept 9	A length	FWS	1,800		400			400 fish at mouth
Sept 17	0.2	FWS	110		220			
1959								
Aug 1	G 0.2	FWS	100					
Aug 21	A	FWS	150					
1960								
July 31	A mouth	ADF						No salmon observed
1961								
Aug 9	A mouth	ADF						Several hundred at mouth
Aug 17	A 0.3	ADF	few					Several thousand at mouth
Sept 4	G 0.5	ADF	1,300		2,100			Few dead pinks, many dead chums
1962								
July 26	A mouth	ADF						No fish observed
Aug 13	A	ADF						8,000 salmon at mouth
Aug 20	A	ADF						15,000 at mouth
Aug 29	A	ADF						14,000 at mouth
Sept 5	G 0.5	ADF	500		100			1,000 in intertidal zone
1963								
Aug 3	G 0.2	ADF	4					50 pinks in intertidal zone
Aug 18	G 0.2	ADF	30					300 in intertidal zone
Aug 28	A mouth	ADF						12,000 at mouth

144-22
56°16.7' N. 133°56.3' W.

ADF STAT. No.
WR 82
No previous No.

WRANGELL, SUMNER STRAIT, PORT BEAUCLERC, S. of SE. tip of Edwards I.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 20'/2".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and mossy rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 8'/3".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Various sizes of broken rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Fair spawning facilities.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 1	G 0.2	FRI						No fish observed Few jumps at mouth
1960								
	No surveys							
1961								
	No surveys							

144-21
56°12.5' N. 133°57.2' W.

ADF STAT. No.
WR 83
Previous No. 108

WRANGELL, SUMNER STRAIT, LOUISE COVE, 2 miles W. of Pt. Amelius.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. Observed temperatures: 51.5° F., 8/12/52; 52° F., 8/22/52; 48.5° F., 9/6/52; 49° F., 9/17/52; 54.5° F., 8/11/53; 52.5° F., 8/22/53; 51.5° F., 9/9/53.
VALLEY DESCRIPTION
DRAINAGE 6 square miles (Aerial).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor W. of the small island lying E. of the mouth.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.7 mile. AVERAGE WIDTH/DEPTH 30'-50'/12".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Four-tenths mile of the upper part offer good spawning gravel. The area from the woods to the intertidal island has gravel mixed with sand.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 25'-30'/8"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Three-tenths mile upstream there is a bedrock constriction. Here the stream falls 15 feet in 100 yards. This could be a partial block to pink salmon.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Between the high tide mark and the bedrock constriction, the stream is a series of pools and riffles.

ADF STAT. No.
WR 83

144-21 ESCAPEMENT RECORD Previous No. 108

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 17	1.0	FWS	9,500		10			
1952								
Aug 12	G 0.2	FRI	0	0	0	0		Water extra low
Aug 22	G 0.2	FRI	0	0	0	0		
Sept 6	G 0.2	FRI	10	0	7	0		None off mouth
Sept 17	G 0.2	FRI	10	0	7	0		None off mouth
1953								
Aug 1	A 0.6	FWS	0	0	0	0		No fish observed
Aug 11	A 0.6	FRI	0	0	0	0		
Aug 22	G 0.6	FRI	87	5	0	0		
Sept 6	G 0.6	FRI	71	0	3	0		None entering
1954								
Aug 24	A 0.6	FRI	0	0	0	0		None observed in stream
1955								
Aug 24	A 0.6	FWS	0	0	0	0		
1956								
Sept 10	A	FWS	600		600			
Sept 13	G 0.7	FWS	600					
1957								
Aug 6	G 1.0	FWS	500					
Aug 11	G 1.0	FWS	1,500		200			
Aug 15	A 2.0	FWS	3,000					
Aug 17	G 1.0	FWS	2,000		500			5,000-8,000 at mouth
Aug 24	G 2.5	FWS	10,000		2,500			
1958								
Aug 18	A length	FWS	30					
Sept 22	A length	FWS	250		50			
1959								
Aug 21	A	FWS						No fish observed
1960								
Sept 7	A mouth	ADF						No salmon observed
1961								
Aug 9	A 0.3	ADF						1,100 salmon schooled at mouth and in intertidal zone
Sept 28	A 0.1	ADF						5,000 carcasses in intertidal area and mouth
1962								
Aug 1	A 1.0	ADF						No fish observed
Aug 7	A	ADF						250 fish at mouth

144-30
56°11.4' N. 134°00.5' W.

ADF STAT. No.
WR 84
Previous No. 109

WRANGELL, SUMNER STRAIT, AFFLECK CANAL, 10.5 miles S. of head of Affleck Canal, E. shore.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 0.15 square mile (Aerial).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Small brushy stream.

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM Good gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS No holes in stream.
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ADF STAT. No.
WR 84

144-30 ESCAPEMENT RECORD Previous No. 109

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 16	0.2	FWS	500		75			
Sept 16	A 0.2	FRI	240	147	62	47		
1953								
Aug 1	A 0.6	FWS	0	0	0	0		No fish observed
1954								
Aug 12-30		FWS	9					
1955								
Aug 24	A 0.6	FWS	0	0	0	0		Very minor stream
Sept 4	A 0.6	FWS	0	0	0	0		
1956								
Sept 27	G 0.5	FWS	1,500					
1957								
Aug 15	A 1.0	FWS						No fish observed
1958								
Sept 29	A length	FWS	50					
1959								
	No record							
1960								
July 31	A length	ADF						Jumpers at mouth
Aug 30	G 0.1	ADF						No fish observed
Sept 7	A mouth	ADF						No fish observed
1961								
Aug 9	A	ADF						500 fish at mouth
1962								
Aug 1	A 1.0	ADF						No fish observed
1963								
Aug 19	G 0.5	ADF	0		10			

144-30
WR 85
HT
0.25 Mile

144-30
56°19' N. 134°04.6' W.

ADF STAT. No.
WR 85
Previous No. 110

WRANGELL, SUMNER STRAIT, AFFLECK CANAL, Head, NW. corner.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES None observed.
VALLEY DESCRIPTION
DRAINAGE 4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Flows across long gravel beach on NW. corner of bay.
ANCHORAGE Anchor in Bear Harbor and run to head with skiff.
TRAILS AND SURVEY ROUTES No trails; stream easily wadeable.
AERIAL SURVEY NOTES Poor for aerial survey due to small size.

INTERTIDAL ZONE

LENGTH 0.1 mile.
AVERAGE WIDTH/DEPTH 20'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Lower half mostly large rock. Upper half fair spawning gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off stream mouth.
SPAWNING AREAS Limited to upper one-half of intertidal area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile.
AVERAGE WIDTH/DEPTH 15'/4"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Good gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES One enters on right side about 200 yards above intertidal area.
SCHOOLING AREAS Few small, scattered pools throughout.
SPAWNING AREAS Good spawning.
GENERAL NOTES

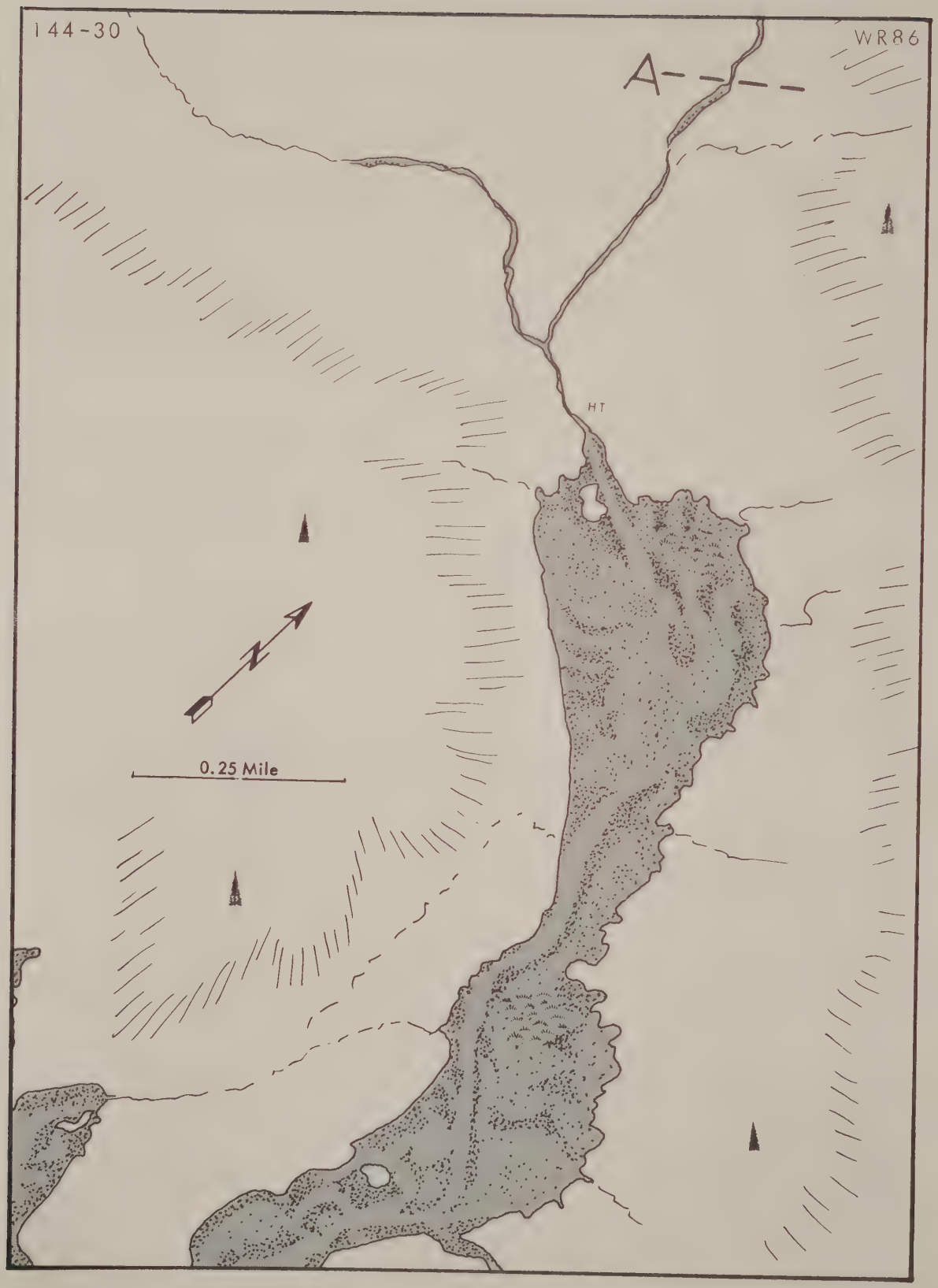
144-30

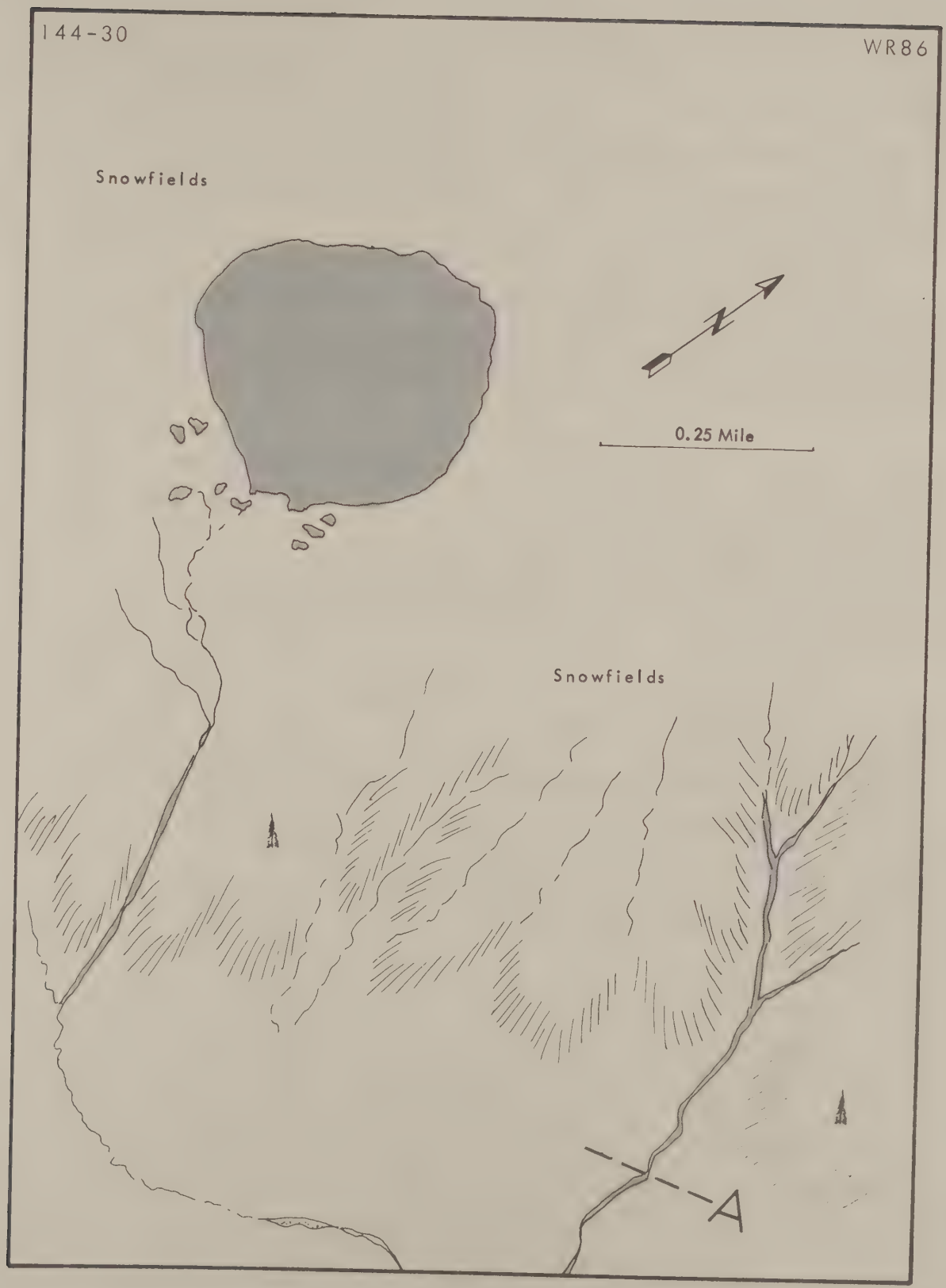
ESCAPEMENT RECORD

ADF STAT. No.
WR 85
Previous No. 110

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 16	G 0.5	FWS	3,750	0	430	0		
Sept 19	0.5	FWS	1,500					
1953								
Aug 1	A 0.6	FWS	0	0	0	0		No fish observed, water low
Sept 6	G 0.2	FWS	550	0	50	0		
Sept 18	A 0.6	FWS						Few dead fish at mouth
1954								
Sept 9	A lgth	FWS	400					
Sept 15	0.5	FWS	8,000		6,000			
1955								
Aug 17	A 0.6	FWS	0	0	0	0		Good visibility
Aug 24	A 0.6	FWS	0	0	0	0		Good visibility
1956								
Aug 21	A 0.7	FWS						5,000 salmon
Aug 31	G 1.0	FWS	9,000		100			
Sept 10	A	FWS	4,000		4,000			
Sept 27	G 0.7	FWS	5,000		500			
1957								
Aug 3	G 0.5	FWS						None in stream
Aug 15	A 2.0	FWS						No fish observed
Aug 18	G mouth	FWS						No fish observed
1958								
Aug 29	A	FWS	4,000					5,000 pinks at mouth
Sept 9	A	FWS	4,500		150			
Sept 12	A mouth	FWS	2,000					
Sept 18	G 0.7	FWS	1,900		210			1,000 dead, 60% pinks
1959								
	No record							
1960								
July 31	A mouth	ADF						Scattered jumps at mouth
Aug 24	A mouth	ADF						Scattered jumps at mouth
Aug 30	G 1.0	ADF	550	0	500	0		4,000 mixed at mouth
Sept 7	A length	ADF	2,000					2,500 mixed fish in intertidal area and at mouth
1961								
July 28	A 0.1	ADF						No fish observed
Aug 9	A 0.1	ADF						4,000 fish at mouth
Aug 14	G 0.5	ADF	1,700	0	few	0		Several schools off mouth
Aug 20	A	ADF						500 fish at mouth
Sept 9	A	ADF	1,500		few			1,000 chum in the intertidal area
1962								
Aug 1	A 0.7	ADF						No fish observed
Aug 13	A mouth	ADF						300 at mouth
Aug 20	A	ADF						1,500 at mouth
Aug 29	A mouth	ADF						4,000 at mouth
1963								
Aug 19	G 0.5	ADF	600		100			
Aug 28	A mouth	ADF						2,000 at mouth


144-30
WR86
A
HT
N
0.25 Mile


Snowfields
0.25 Mile
Snowfields
A

ADF STAT. No.
144-30 WR 86
56°15.6' N. 134°07.8' W. Previous No. 111

WRANGELL, SUMNER STRAIT, AFFLECK CANAL, BEAR HARBOR, head of N. arm

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Cold range. Observed temperatures: 49.5° F., 9/6/50; 51.5° F., 9/16/50; 47.5° F., 9/29/50; 50° F., 9/16/51; 50° F., 8/27/51; 49° F., 9/11/51.
VALLEY DESCRIPTION Glacial origin.
DRAINAGE 3 square miles (polar planimeter). Precipitation-fed. Fed by snowmelt from surrounding snowfields and surface runoff.
STREAM MOUTH IDENTIFICATION Stream flows through long grass flats at head of bay.
ANCHORAGE The middle and W. arms of this harbor are suitable for anchorage.
TRAILS AND SURVEY ROUTES Easily traveled up the streambed. Game trails along banks.
AERIAL SURVEY NOTES Aerial visibility is fair.

INTERTIDAL ZONE

LENGTH 0.6 mile. AVERAGE WIDTH/DEPTH 100'/10".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Fine gravel, sand, and mud.
LOW TIDE LOCATION
HIGH TIDE LOCATION Edge of woods on big tides.
SCHOOLING AREAS Two large holes in the lower and middle intertidal area.
SPAWNING AREAS The upper one-fourth mile has excellent spawning gravel and is utilized to a large degree by pink salmon. Above and below this, the bottom is largely silt and sand.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.8 mile. AVERAGE WIDTH/DEPTH 15'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Clean, small gravel.
MARKER DISTANCE 0.7 mile.
MARKER IDENTIFICATION Orange circled aluminum square on undersurface of large uprooted tree.
BARRIERS None.
TRIBUTARIES None. Stream branches considerably above 0.7 mile.
SCHOOLING AREAS One large pool at the head of tidewater; small pools throughout stream.
SPAWNING AREAS Nearly continuous spawning riffles are found throughout.
GENERAL NOTES This stream branches just before entering the long tideflats. The main stream enters in the extreme SW. corner of the tideflats. The other branch enters about the middle of the tideflats. Fish enter both forks when water conditions are favorable.

ADF STAT. No.
WR 86
144-30 ESCAPEMENT RECORD Previous No. 101

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 2	G 1.0	FRI	3,000	0	525	0		Schools off mouth and bay
1950								
Sept 6	G 1.0	FRI	4,157	1	248	0		
Sept 16	G 0.5	FWS	5,626	105	700	23	3 cohos, 2 reds	
Sept 29	G 0.5	FRI	1,989	263	1,663	0		
1951								
Aug 12	G 2.0	FRI	12	0	2	0		
Aug 27	G 0.5	FRI	5,002	0	27	0		5,000 in intertidal zone
Sept 11	G 1.0	FRI	7,130	0	570	0		
1953								
Aug 1	A 0.7	FWS						No fish observed
Aug 24	G 1.0	FWS	1,000	0	0	0		
Aug 25	G 1.0	FWS	200	0	0	0		
Aug 29	G 1.0	FWS	150	0	2	0		
Aug 30	G 1.0	FWS	50	0	0	0		
Sept 6	G 1.0	FWS	0	0	0	0		Visibility poor. None observed
Sept 18	A 0.7	FWS						1,000 pinks in intertidal zone
1954								
Aug 16	A	FWS	4,000					
Aug 24	A 0.7	FRI	500	0	0	0		2,000 off mouth
Sept 10	A 0.7	FRI	3,000	0	0	0		500 pinks at mouth
Sept 15	G 0.5	FWS	10,000					Pink mature, water low
1955								
Aug 19	A 0.7	FRI	12,000	0				Some live chum
Aug 21		FWS	1,800					
Aug 21	A 0.7	FRI	12,000	0				Some chum
Aug 24	A	FWS	23,000		2,000			
Aug 28	A 0.7	FRI	14,000	0	0	0		1,000 at mouth, >6,000 in bay
Sept 4	A length	FWS	150,000					
Sept 5	A 0.7	FRI	60,000	0				Amazing for size of stream
Sept 16	A 0.7	FRI	70,000					Many dead pinks
Sept 22	A 0.7	FRI	60,000					
1956								
Aug 9		FWS	100					
Aug 18	0.2	FWS	300					
Aug 21	A 0.7	FWS	7,000					
Aug 25	A marker	FRI	40,000					
Aug 26	A 0.7	FRI	40,000					10,000-20,000 at mouth
Aug 29	A	FWS	25,000					Chum present
Aug 31	G 0.5	FWS	20,000				150 cohos	Chum present
Aug 31	G 0.7	FWS	27,000					
Aug 31	A	FWS	20,000					First half of a mile
Sept 7	A 0.7	FRI	65,000					Some dead pinks
Sept 10		FWS	15,000					Schools at bay entrance
Sept 12	G 1.0	FWS	6,200		100			100 at mouth
Sept 12	A 0.7	FRI	25,000					60,000 at mouth.
Sept 27	G 1.5	FWS	10,000		8,000			Chum first mile, pink after

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
Aug 25	A 0.7	FRI	12,000					Some live chums
Sept 1	G 1.0	FWS	25,000	2,000	200			
Sept 2	A	FRI	14,000	0				Some live chums
Sept 5	A	FRI	5,000		500			2,000 pinks at mouth
Sept 12	A	FRI	12,000					Dead pinks, some live chums
Sept 16	G 1.0	FWS-FRI	26,500	0	1,700	0		>1,000 chums at mouth
1958								
Aug 7	G length	FWS	350					
Aug 15	G 0.7	FWS	8,000		8		1 red	4,800 in first half mile, 3,200 in last quarter
Aug 15	G 0.7	FWS	5,800		8			
Aug 25	A length	FWS	16,000					Some chums
Aug 25	G 0.7	FWS	10,000		10		1 red	
Aug 26	G 1.0	FRI	40,870	22	350	1		
Aug 13-29	G	FWS	16,000		100			
Sept 9	A length	FWS	42,000		500			
Sept 17	A marker	FWS	3,000	3,000				
Sept 18	0.7	FWS	7,300		580			
Sept 20	G 1.0	FWS	6,500	3,410	1,000	500	500 cohos	
Sept 22	A length	FWS	22,000		800			5,000 dead salmon
1959								
Aug 8	G flats	FWS	7,300					500 off mouth
Aug 18	G 0.2	FWS	5,700		1			15,000-20,000 off mouth
Aug 24	G marker	FWS	12,500		50			55,000 pinks in salt water
Sept 3	A length	FWS	30,000					
1960								
Jul 31	A 1.0	ADF						Several schools in bay
Aug 24	A 1.0	ADF			400			
Aug 30	G 1.7	ADF	11,000		300			21,000 mixed off mouth
Sept 7	A 0.7	ADF						21,500 in intertidal zone
Sept 12	A 1.7	ADF	many		many			30,000 in intertidal zone
1961								
Jul 28	A 0.7	ADF						700 mixed in bay
Aug 8	A	ADF						Water dark, good showing
Aug 9	A 1.0	ADF	1,000					2,000 mixed in intertidal
Aug 10	G 0.5	ADF						3,200 mixed in intertidal, 3,000 off mouth
Aug 14	G 0.8	ADF	4,500		few			Thousands off mouth, 9,000 chums and pinks in intertidal
Aug 20	A	ADF	many					3,000 at mouth
Aug 25	A 0.7	ADF						15,000 in intertidal zone
Sept 5	G 0.8	ADF	16,700	0	500	0		2,000 mixed chums, pinks, and cohos at mouth

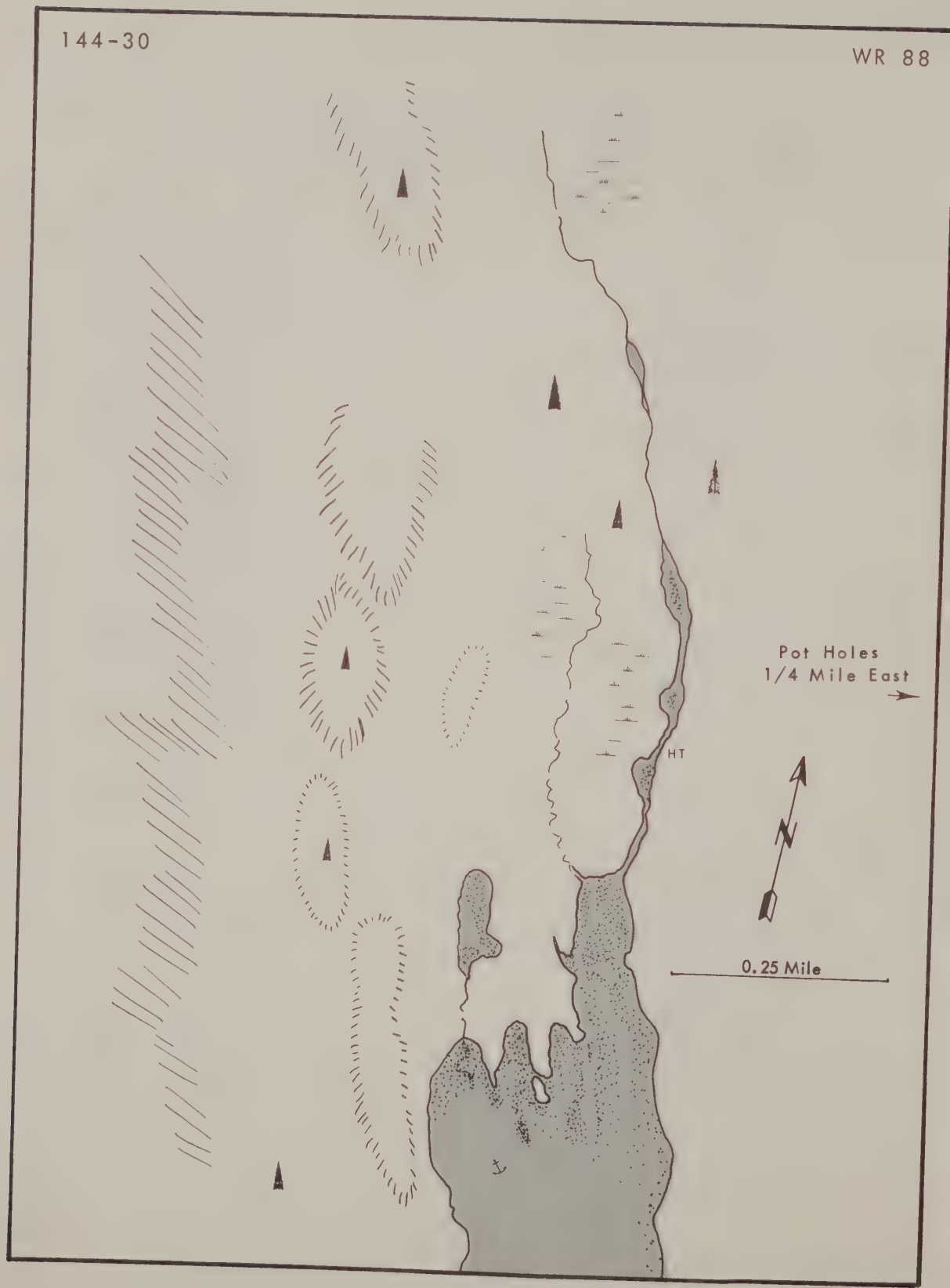
ADF STAT. No.
WR 86

144-30 ESCAPEMENT RECORD - Continued Previous No. 111

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1962								
July 26	A	ADF						300 salmon at mouth
Aug 1	A flats	ADF						>20,000 salmon at mouth, 2,000 in intertidal zone
Aug 7	A	ADF						5,000 salmon at mouth, 2,500 in intertidal zone
Aug 8	G	ADF						2,000 in intertidal zone
Aug 13	A bay	ADF						30,000 at mouth
Aug 13	G 1.0	ADF	16,000					8,000 in intertidal zone
Aug 15	G 1.0	ADF	19,000					20,000 at mouth, 12,000 in intertidal zone
Aug 20	A 0.5	ADF	10,000					15,000-20,000 at mouth, 25,000 in intertidal zone
Aug 21	A 1.0	ADF	20,000					40,000 at mouth, 20,000 in intertidal zone
Aug 23	G 1.0	ADF	51,200		1			40,000-50,0000 in intertidal zone
Aug 29	A length	ADF	many					60,000 at mouth, 50,000 in intertidal zone
1963								
Aug 19	0.2 above flats	ADF	400					8,000 in intertidal zone
Aug 28	A length	ADF						3,500 in intertidal zone
Sept 3	G length	ADF	1,030		150			600 mixed at mouth; 470 pinks, 325 chums in intertidal zone

144-30

WR 88



144-30
56°11.4' N. 134°11.2' W.

ADF STAT. No.
WR 88
Previous No. 113

WRANGELL, SUMNER STRAIT, AFFLECK CANAL, KELL BAY, head of N. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug. -Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent in first mile becoming progressively worse above.
STREAM TEMPERATURES Normal range. Observed temperatures: 48°F., 9/7/50; 52.5°F., 9/16/50; 46°F., 9/29/50; 54°F., 8/16/51; 55°F., 8/26/51; 52°F., 9/10/51; 53°F., 8/22/52; 51°F., 9/5/52; 50°F., 9/18/52; 54°F., 9/9/53.
VALLEY DESCRIPTION
DRAINAGE 3.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Flows in across a short grass flat at head of bay.
ANCHORAGE Boat anchorage is available at the head of the bay.
TRAILS AND SURVEY ROUTES About 100 yards to the right of the stream there is an open muskeg area which can be easily followed downstream.
AERIAL SURVEY NOTES Aerial survey difficult due to small size, dark water and brush.
GENERAL NOTES A small stream.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 15'-90'/3"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Fine to large gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Several holes are found in this area. A large, deep hole near the upper end is utilized extensively.
SPAWNING AREAS The upper 200 yards has good gravel and spawning occurs in this area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles. AVERAGE WIDTH/DEPTH 15'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Good spawning gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Impassable falls 1.5 miles above tidewater.
TRIBUTARIES None.
SCHOOLING AREAS Many deep holes throughout.
SPAWNING AREAS The first mile of the stream has numerous good riffles. Above this, bedrock becomes more predominant, limiting the spawning area.
GENERAL NOTES Easy stream to survey by foot.

ADF STAT. No.
WR 88

144-30 ESCAPEMENT RECORD Previous No. 113

[Counts made by ground surveys are designated by G; aerial surveys by A]

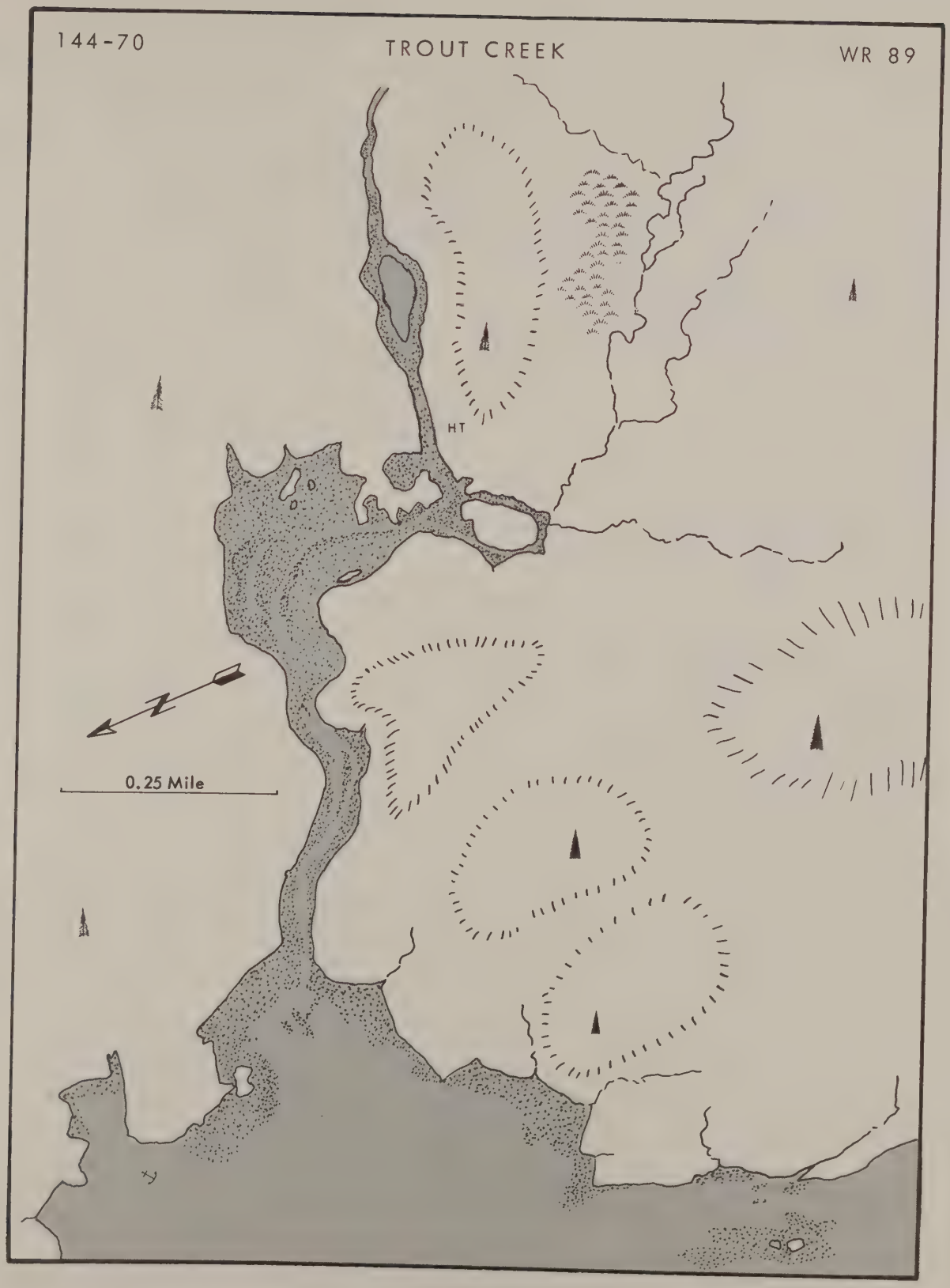
Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Miles	REMARKS
1949								
Sept 3	G 1.2	FRI	4,500	0	800	0		Scattered schools in bay
1950								
Sept 7	G 0.5	FWS	4,544	6	579	8	12 cohos, 2reds	
Sept 16	G 0.5	FRI	3,830	182	451	225		
Sept 29	G 0.5	FRI	1,362	540	158	224	16 cohos	
1951								
Aug 16	G 1.0	FRI	0	0	0	0		
Aug 26	G 1.0	FRI	8,100	0	170	0		8,000 in intertidal zone
Sept 10	G 1.0	FRI	7,620	3	1,425	75		
Sept 15	1.0	FWS	20,000		2,000			
Oct 5	G 0.7	FRI	2,721	1,400	388	1,200		Peak past
1952								
Aug 11	G 0.7	FRI	0	0	0	0		Water extra low
Aug 22	G 0.7	FRI	3,600	1	920	0		
Aug 28	A	FWS						<2,000 fish
Sept 5	G 0.7	FRI	3,310	50	1,250	98		None off mouth
Sept 18	G 0.7	FRI	1,675	143	1,030	113	70 cohos	None off mouth
1953								
Aug 1	A	FWS						No fish observed
Sept 6	A	FWS	200	0	0	0		
Sept 9	G 0.7	FRI	750	0	620	0		Good visibility. No fish
Sept 18	A	FWS						Few live salmon. Some dead
1954								
Aug 16	A length	FWS	200					
Aug 24	A	FRI	400	0	400	0		Water very low
Sept 10	A	FRI	1,500	0	1,500	0		Few fish at mouth
1955								
Aug 19	A	FRI	1,100	0		0		Some chums. Schools at mouth
Aug 28	A	FRI	4,000	0	0	0		5,000 at mouth
Sept 4	A length	FWS	30,000					
Sept 5	A	FRI	32,000	0	0	0		Schooled in pools
Sept 16	A	FRI	20,000					Dead pinks, live chums
Sept 22	A	FRI	15,000	0	0	0		
1956								
Aug 13	G	FWS			30			
Aug 15	0.3	FWS			150			Above tidal zone, 50 chums in tidal zone
Aug 19	G 0.7	FWS	1,000					
Aug 21	A	FWS	1,000					Tidal zone
Aug 23	G 0.2	FWS	2,800					
Aug 26	G 0.2	FWS	7,100					
Aug 26	A	FRI	10,000	0	0	0		Many jumps in bay
Aug 31	A 0.7	FWS	18,000					
Sept 7	A	FRI	50,000	0	0	0		Thousands in intertidal
Sept 10	A	FWS	5,000					
Sept 12	G 1.2	FWS	12,000		900			Some dead
Sept 12	A	FRI	16,000					Some dead pinks
Sept 27	G 0.7	FWS	12,000		50			Several thousand dead

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
Aug 25	A	FRI	6,000	0				Some live and dead chums
Sept 1	G 1.5	FWS	11,000	500	450	0		Few at mouth
Sept 2	A	FRI	8,000		1,500			Some dead pinks and chums
Sept 5	G	FWS-FRI	6,000		350		20 cohos	Excellent spawning area
Sept 16	A	FWS-FRI	10,000		4,000			Excellent spawning area
1958								
Aug 7	A 0.5	FWS	75					
Aug 13	G	FWS	2,000		200			
Aug 15	G 0.7	FWS	10,000		4			
Aug 16	G 1.5	FWS	7,000		>300			
Aug 24	G 1.5	FWS	7,000		300-400			
Aug 25	A marker	FWS	9,000					
Aug 25	G 1.5	FWS	7,500		400			Some chums
Aug 28	G 1.0	FRI	41,900	15	575	20		
Aug 29	G 1.5	FWS	6,000		300			
Aug 13-29 season		FWS	8,500		400			
Sept 9	A 9.0	FWS	19,000		500			500 dead salmon
Sept 17	A marker	FWS	2,000					>5,000 dead
Sept 17	G 0.7	FWS	9,700		1,600			5,000 dead
Sept 20	G 1.2	FRI	4,000	3,100	1,300			
Sept 22	A length	FWS	5,000		200			Estimated 10,000 dead
1959								
Aug 3	A 2.0	FWS	100		10			
Aug 9	G 0.2	FWS	150		2			
Aug 17	G 0.5	FWS	7,700					2,000 off mouth
Aug 20	G 1.0	FWS	25,000					
Aug 23	G marker	FWS	15,200		200			
1960								
July 31	A	ADF						Several schools at mouth
Aug 19	A 0.3	ADF						Fish present. Poor visibility
Aug 24	A 0.3	ADF						No fish observed
Aug 31	G 1.3	ADF	7,000	0	2,500	0		7,000 pinks and chums at mouth
Sept 7	A 0.5	ADF	10,000					7,000 in intertidal zone
1961								
Aug 8	A	ADF						10,000 in bay
Aug 9	A	ADF						6,000 in bay
Aug 10	G 0.8	ADF	4,100	0	few	0	2 reds	5,200 off stream mouth
Aug 13	G 1.0	ADF	14,500	00	few	0	1 red	4,000 in intertidal area
Aug 25	A	ADF						Too rough to survey
Sept 5	G 0.8	ADF	33,000	many	1,000	many		6,500 in intertidal area
1962								
July 26	A	ADF						150 salmon at mouth
Aug 5	G	ADF						3,000 at mouth
Aug 7	A	ADF						8,000 at mouth
Aug 13	A 0.5	ADF						18,000 at mouth, 10,000 in intertidal
Aug 13	G 1.0	ADF	4,800		2			20,000 at mouth, 5,000 in intertidal zone
Aug 20	A 1.0	ADF						8,000 at mouth, 8,000 in intertidal zone
Aug 21	A 1.0	ADF	15,000					10,000 at mouth, 10,000 in intertidal zone
Aug 24	G 1.0	ADF	31,500		few			10,000 at mouth, 21,000 in intertidal zone
Aug 29	A 1.0	ADF	many					5,000 at mouth

ADF STAT. No. WR 88

144-30 ESCAPEMENT RECORD - Continued Previous No. 113

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1963								
Aug 9	A	ADF						1,000 in intertidal zone
Aug 19	G 0.7	ADF	2,500					500 in intertidal zone
Aug 28	A mouth	ADF						2,000 in intertidal zone
Sept 3	G length	ADF	600		1,670			


144-70
TROUT CREEK
WR 89
HT
N
0.25 Mile

144-70 TROUT CREEK ADF STAT. No. WR 89
56°03' N. 133°41.5' W. Previous No. 116

WRANGELL, SUMNER STRAIT, 1.8 miles S. of Ruins Pt.

MAJOR SPECIES Pink. OTHER SPECIES Chum and coho.
ESCAPEMENT TIMING Middle. Aug. -Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Flat, large muskeg valley.
DRAINAGE 17 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor in Shipley Bay and proceed in skiff.
TRAILS AND SURVEY ROUTES Fairly open banks.
AERIAL SURVEY NOTES Can be surveyed, but water is extremely dark.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 100'/14".
GRADIENT AND VELOCITIES Gradual.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth and in lagoon area.
SPAWNING AREAS Good gravel in upper area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles. AVERAGE WIDTH/DEPTH 75'/14".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Excellent.
GENERAL NOTES

144-70

TROUT CREEK

ADF STAT. No.
WR 89
Previous No. 116

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

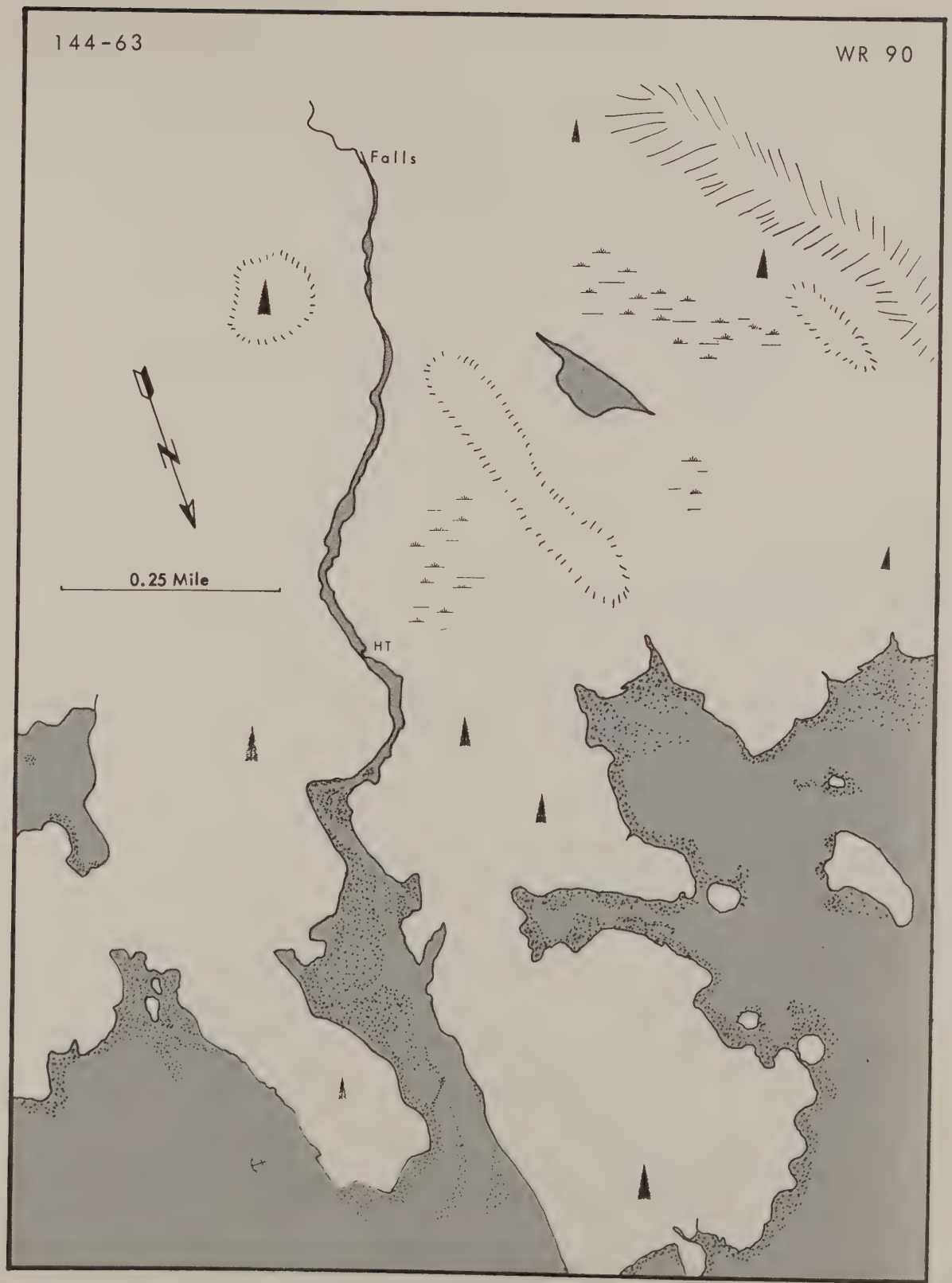
Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1942								
Sept 9	G	FWS	15,000					Fair
1943								
Sept 15	G	FWS	75,000					Fair
1944								
Sept 20	G	FWS	10,000					Poor
1945								
Sept 7	G	FWS	20,000					Fair
1950								
July 28		FWS	2,500					
1953								
Season		FWS	3,000					
1954								
Sept 14	G 1.0	FWS	15,000					
1955								
Aug 14	G 0.5	FWS						Some pinks
Aug 21	G 0.5	FWS						4 spawning - 1 dead
Aug 23	G 0.5	FWS	500					Jumpers off mouth
Aug 24	A	FWS	5,000	0	0	0		
Aug 25	G 0.5	FWS	4,000					
Sept 5	A 2.5	FWS	5,000	0	0	0		
1956								
Sept 4	A length	FWS	3,000					
Sept 10	A 4.0	FWS	3,000					
Sept 13	G 0.7	FWS	75				1 coho	
Sept 17	A 1.0	FRI	>15,000					
1957								
Aug 5	G 2.0	FWS	700					
Aug 8	G 0.7	FWS	1,100					
Aug 10	G 1.5	FWS	2,000					
Aug 15	4.0	FWS	7,000					6,000 in tidal zone
Aug 16	G 2.5	FWS	6,000					
Aug 17	5.0	FWS	6,500					
Aug 24	0.1	FWS	600					
Sept 9	A 2.0	FRI	300					
Sept 22	A mkr	FRI	300					
Sept 27	A 1.0	FWS	1,200				500 cohos	
1958								
Aug 9	G 0.5	FWS	30					
Aug 25	G 1.0	FWS	>2,000					
Aug 28	G 0.5	FWS	1,000					
Aug 29	G 1.0	FRI	10,020		200			
Sept 2	G 1.0	FWS	600					
Sept 7	G mkr	FWS	2,000					
Sept 10	A 1.0	FWS	1,400		300			
Sept 18	G 1.0	FWS	1,700	100	10		300 cohos	
1959								
Aug 3	A 5.0	FWS	50					
Sept 3	A 2.0	FWS						No fish observed

ADF STAT. No.
WR 89
Previous No. 116

144-70 TROUT CREEK

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1960								
July 31	A length	ADF						No fish observed
Aug 24	A mouth	ADF						500 mixed chums and pinks at mouth
Sept 7	A length	ADF	2,000					
1961								
July 28	A 1.0	ADF						3,000 pinks in schools at mouth
Aug 25	A 3.0	ADF						Fish present. Water too dark for estimate
1962								
July 26	A 1.0	ADF						No fish observed
Aug 7	A	ADF						800 salmon at mouth
Aug 13	A	ADF	200					25,000-30,000 salmon at mouth
Aug 16	A 6.0	ADF						Few pinks seen
Aug 21	A 3.0	ADF						10,000 at mouth
Aug 25	A 1.5	ADF						Very few present
1963								
July 29		ADF	7,000					4,000-5,000 at mouth
Aug 7	A 1.0	ADF	3,000					2,000-3,000 at mouth
Aug 20	G 2.2	ADF	45,000					50 in intertidal zone
Aug 28	A 2.0	ADF	32,000					500 in intertidal zone; 1,500 at mouth


144-63
WR 90
Falls
N
0.25 Mile
HT

144-63
56°04.4' N. 133°33' W.

ADF STAT. No.
WR 90
Previous No. 117

WRANGELL, SUMNER STRAIT, SHIPLEY BAY, in cove 2 miles from head of Bay.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters on the E. side of the most prominent point on the S. shore.
ANCHORAGE Good anchorage at the head of the bay.
TRAILS AND SURVEY ROUTES It is preferable to enter at high tide and run to the upper end of the intertidal zone. From here, the stream is easily waded until the bedrock is reached and then travel becomes more difficult.
AERIAL SURVEY NOTES Aerial survey difficult due to heavy overstory of brush.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Several large pools in upper half.
SPAWNING AREAS Upper half of this area has good gravel.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 30'/10".
GRADIENT AND VELOCITIES Moderate below, swift above
BOTTOM Gravel below, large rock, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Pools throughout area surveyed.
SPAWNING AREAS The lower 300 yards has the best spawning gravels; above this, the gradient increases and rubble begins to be the predominant bottom material.
GENERAL NOTES

144-63

ESCAPEMENT RECORD

ADF STAT. No. WR 90
Previous No. 117

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1943								
Sept 15	G 0.1	FWS	10,000					Fair
1944								
Sept 19	G 0.1	FWS	30,000				850 cohos	Excellent
1945								
Sept 7	G 0.1	FWS	20,000					Excellent
1946								
Oct 2	G 0.1	FWS	4,000					Poor
1950								
Aug 30		FWS						2,000 pinks and chums in tidewater
1953								
Season		FWS						Few fish
1954								
Sept 9	1.5	FWS	20,000					
Sept 14	1.0	FWS	20,000					
1955								
Aug 8	G 1.0	FWS	0	0	0	0		No fish noted in bay
Aug 17	G 1.0	FWS			0	0		Few pinks noted in bay
Aug 18	G 1.0	FWS						Big school of pinks
Aug 19	G 1.0	FWS						Pinks started going up stream
Aug 24	A	FWS	10,000					
Aug 25	G 1.0	FWS	2,000					Few live chums
Sept 4	A	FWS	10,000					About 300 off mouth
Sept 11	G 1.6	FWS	10,000		25	0		1,000 fish in intertidal zone
1956								
Aug 17	G	FWS			20			
Aug 18	G	FWS	100					
Aug 23	G	FWS	10,000					10,000 off mouth
Sept 4	A length	FWS						100,000 salmon in bay
Sept 10	A	FWS	3,000					
Sept 13	G 5.0	FWS	21,000		400			
1957								
Aug 13	G mouth	FWS	700		300			
Aug 14-21	G 0.2	FWS	100		50			
Aug 15	A 3.0	FWS	600					
Aug 22	G 0.2	FWS	500					
Aug 23	G 0.5	FWS	500					400 chums off mouth
Aug 24	G 0.7	FWS	800		25			600 off mouth
Aug 26	G 1.0	FWS	3,000	25	0	0		
Sept 6	G 0.7	FRI	630		70			Fair to good
Sept 17	G 1.0	FRI-FWS	4,200		400			Fair to good
Sept 26	G 0.5	FWS	1,800		130			
1958								
Aug 14	G 1.0	FWS	1,200		14			
Aug 21	G 0.2	FWS	200		100			
Aug 22	G 1.0	FWS	700					
Aug 27	G 0.5	FWS	1,500		50			
Sept 10	A 2.0	FWS	3,000		50			
Sept 19	G 0.5	FWS	900		2			
Sept 29	A 1.0	FWS	500		200			

ADF STAT. No.
WR 90

144-63 ESCAPEMENT RECORD - Continued Previous No. 117

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
Aug 3	A 2.0	FWS						10,000 fish schooled in outer bay
Aug 27	G 1.0	FWS	5,300		50			
Sept 3	A 1.0	FWS						No fish observed
1960								
July 31	A mouth	ADF						500 fish at mouth
Aug 19	A 0.5	ADF						Poor visibility
Aug 24	A mouth	ADF						150 pinks at mouth
Sept 7	A mouth	ADF						5,000 pinks at mouth
Sept 15	A length	ADF	present					5,000-6,000 at mouth
1961								
July 28	A	ADF						1,500 pinks off mouth
Aug 8	A	ADF						20,000 in bay off mouth
Aug 9	A 0.3	ADF						Several thousand off mouth
Aug 25	A 2.0	ADF						300 pinks in tidal area Good showing of fish throughout stream
1962								
July 30	A 1.0	ADF						No fish observed
Aug 7	A 0.5	ADF						1,700 salmon at mouth
Aug 13	A 0.5	ADF						10,000 salmon at mouth
Aug 16	G 1.0	ADF	2,000		few			5,000 in intertidal zone
Aug 21	A 1.0	ADF	2,000					2,000 at mouth
Aug 25	G 1.0	ADF	4,700					6,000 at mouth, 4,000 in intertidal zone
1963								
July 29	A	ADF						6,000 at mouth
Aug 7	A 0.2	ADF						1,500 at mouth
Aug 20	G 1.0	ADF	6,500					4,000 mixed in intertidal; 4,000-5,000 at mouth
Aug 29	A mouth	ADF						20,000 at mouth; 10,000 in intertidal zone
Sept 5	G mouth	ADF						1,000 in intertidal zone

144-63

SHIPLEY CREEK

WR 91

144-63 SHIPLEY CREEK ADF STAT. No. WR 91
56°03.4' N. 133"30.2' W. Previous No. 118

WRANGELL, SUMNER STRAIT, SHIPLEY BAY, NE. corner of Bay.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor in the stream.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION A narrow stream-cut valley running between a lake and Shipley Bay. It is heavily wooded with dense underbrush in places.
DRAINAGE 8.9 square miles (polar planimeter). Drains a lake 2.2 miles long and 0.3 mile wide. Snowfields surround the upper valley and contribute snowmelt at certain times of the year.
STREAM MOUTH IDENTIFICATION A small, grassy tideflat can be seen just W. of the stream mouth and a prominent rock ledge is on the E. side of the mouth.
ANCHORAGE Refer to WR 90.
TRAILS AND SURVEY ROUTES The stream may be waded with some difficulty due to the brushy margins. A trail follows the left bank from the lake to the beach.
AERIAL SURVEY NOTES Too short and overgrown for adequate aerial survey.

INTERTIDAL ZONE

LENGTH 0.05 mile. AVERAGE WIDTH/DEPTH 30'-40'/10"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Coarse rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth and in a large pool near the high tidemark.
SPAWNING AREAS Some spawning may occur near the upper end.
GENERAL NOTES The stream is divided within this zone.

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 40'/12".
GRADIENT AND VELOCITIES Steep.
BOTTOM Small rock and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES None.
SCHOOLING AREAS A few pools are present.
SPAWNING AREAS Very little spawning area is found in the stream, but there appears to be good spawning facilities in the lake.
GENERAL NOTES

144-63

SHIPLEY CREEK

ADF STAT. No. WR 91
Previous No. 118

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1942								
Sept 9	G 0.7	FWS	30,000	0	1,000		1,000 reds	
1943								
Sept 15	G 0.7	FWS	150,000	0			1,000 cohos	Excellent
1944								
Sept 19	G 0.7	FWS	186,000	0	8,500		6,500 cohos	Excellent
1945								
Sept 7	G 0.7	FWS	4,000	0	500			Excellent
1946								
Oct 12	G 0.7	FWS	10,000	0	2,000			Good
1950								
Aug 18		FWS	3,000					
1953								
Aug 7	A	FWS						No salmon in stream, 3,500 off mouth
1954								
Sept 9		FWS						3,000 jumpers off mouth
Sept 14	G to lake	FWS	20,000		600		400 cohos	
1955								
July 18	G 0.7	FWS	0	0	0	0		A few jumps off mouth
July 19	G 0.7	FWS	0	0	0	0	4 reds	
July 22	G 0.7	FWS	0	0	0	0	100 reds	Low water
July 24	G 0.7	FWS	0	0	0	0	1,000 reds	
July 26	G 0.7	FWS	0	0	0	0	250 reds	Big school off mouth
July 28	G 0.7	FWS	0	0	0	0		3,000 reds schooled at mouth
Aug 5	G 0.7	FWS	0	0	0	0		Reds can't enter lake, water low
Aug 6	G 0.7	FWS	0	0	0	0		2,500 reds up with high tide
Aug 7	G 0.7	FWS	0	0	0	0		Most reds reached lake
Aug 24	G 0.7	FWS	0	0	0	0		Visibility poor
Sept 1	G 0.7	FWS	13,750	0	75	0	1 red	Small stream, good spawning
Sept 4	A	FWS	100	0	0	0		Visibility poor
Sept 10	G to lake	FWS	180				50 cohos	
1956								
July 27	G	FWS					3,000 reds	
July 28	G	FWS					3,000 reds	
July 30	G	FWS					6 reds	
Aug 6	G	FWS					4,000 reds	
Sept 12	A lake	FWS	5,000					20,000 at mouth
Sept 13	G	FWS	7,000		8,000		300 cohos	
1957								
July 24	G mouth	FWS					250 reds	
July 25	G mouth	FWS					150 reds	
July 28	G mouth	FWS					125 reds	
July 29	G mouth	FWS					50 reds	
Aug 6	G mouth	FWS					100 reds	
Aug 19	G mouth	FWS						3,000 salmon off mouth
Aug 22	G mouth	FWS	500					
Sept 26		FWS	18,000		400		2,500 reds	4,000 dead

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1958								
July 8-13	G flats	FWS					50 reds	
July 14-16	G flats	FWS					200 reds	At mouth
July 17-21	G flats	FWS					200 reds	At mouth
July 22-23	G flats	FWS					700-1,000 reds	
July 24-25	G flats	FWS					1,000 reds	
July 26-28	G flats	FWS					1,500 reds	At mouth
July 30	G flats	FWS					150 reds	At mouth
Aug 2	G flats	FWS					200 reds	400 reds on flats
Aug 4- 9	G flats	FWS					900-1,400 reds	
Aug 10	G flats	FWS					500 reds	
Aug 11	G flats	FWS					100 reds	
Aug 13	G flats	FWS					8,000 reds	
Aug 13	G 1.0	FWS	50					5,000 pinks, 400 chums on flats
Aug 18	G flats	FWS	9,000					
Aug 19	G flats	FWS	5,000		300			
Aug 19	A lake	FWS						4,000 pinks at mouth 400 salmon in lake
Aug 20-21	G flats	FWS	5,000		400			
Aug 21	intertidal	FWS	40,000		400		1 coho	
Aug 22	G lake	FWS	700		10		2,500 reds	
Aug 22	G flats	FWS	25,000		500			Off mouth
Aug 29	G 0.7	FRI	550		28			50,000 pinks off mouth
Sept 10	A lake	FWS	>20,000					5,000 pinks at mouth
Season	entire	FWS	30,000		3,000		12,000 reds	
Sept 18	G lake	FWS	18,000		800			200 dead, 75% chums
Sept 29	A lake	FWS	5,000		200			15,000 dead, 300 salmon at mouth
1959								
July 15	G flats	FWS						No fish observed
July 17	G flats	FWS					100 reds	
July 18	G flats	FWS					200 reds	
July 21	G flats	FWS					400 reds	
July 26-27	G flats	FWS					100 reds	
Aug 1- 3	G flats	FWS	500					
Aug 4- 5	G flats	FWS	1,500					
Aug 22	A lake	FWS						No fish observed
Aug 27	G lake	FWS	4,400					5,000 pinks off mouth
1960								
July 31	A 2.0	ADF						Jumpers at mouth
Aug 19	A mouth	ADF						400 pinks at mouth
Sept 7	A mouth	ADF						Fish present. Water dark
1961								
July 28	A	ADF	2,000					At mouth
Aug 8	A	ADF						20,000 in bay
Aug 9	A 2.0	ADF						1,000 at mouth
Aug 15	G 0.3	ADF						3,000 at mouth
Aug 25	A mouth	ADF						Water dark for survey
1962								
Aug 16	G lake	ADF	500				500 reds	7,000 at mouth
Aug 21	A	ADF						1,500 at mouth
Aug 25	G lake	ADF	3,000					10,000 at mouth
1963								
July 31	G 0.2	ADF						3,000-5,000 at mouth
Aug 29	A mouth	ADF						20,000 at mouth; 2,000 in intertidal zone; 20,000 schooled inside markers

144-62 MARBLE CREEK WR 92

144-62 MARBLE CREEK ADF STAT. No. WR 92
56° 10. 4' N. 133° 27. 7' W. Previous No. 125

WRANGELL, SUMNER STRAIT, SHAKAN BAY, 1. 5 miles N. of Dry Pass.

MAJOR SPECIES Pink. OTHER SPECIES
ESCAPEMENT TIMING Middle. Aug. -Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 7. 3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Travel in woods several hundred feet above high tide, then upstream.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 10'/8".
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS No spawning area observed.
GENERAL NOTES

ADF STAT. No.
WR 92
Previous No. 125

144-62

MARBLE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1942								
Sept 10	G	FWS	10,000					Fair
1943								
Sept 21	G	FWS	8,000					Fair
1944								
Sept 19	G	FWS	1,200					Fair
1945								
Sept 18	G	FWS	2,000					Fair
1946								
Oct 11	1.0	FWS	4					Poor seeding
1951								
Sept 15	1.0	FWS	20,000		2,000			
1954								
Sept 16		FWS	2,000					
1955								
Sept 10	G 1.0	FWS	300					
1956								
Aug 12	G 0.5	FWS						No fish observed
Sept 12	G 1.0	FWS	300					
Sept 12	A 0.5	FWS						No fish observed
1957								
July 26	G 0.2	FWS						No fish observed
Aug 15	A 2.0	FWS	50					
Sept 25	G 0.7	FWS	350		90			75 dead
1958								
Aug 24	G 1.0	FWS	1		1			
Sept 19	0.05	FWS	2					
Sept 29	A length	FWS	150		200			
Sept 30	G mouth	FWS						No fish observed
1959								
Aug 21	A	FWS						No fish observed
1960								
July 31	A mouth	ADF						50 pinks at mouth
1961								
Aug 16	G 0.3	ADF						1,500 pinks off mouth
Aug 25	A mouth	ADF						Water too dark for estimate
1962								
Aug 13	A mouth	ADF						Excellent show throughout
1963								
July 29	A mouth	ADF						Scattered jumps

144-62
CALDER CREEK
WR 93
Old
Logging
Area
HT
Old Weir site
N
0.25 Mile

144-62 CALDER CREEK ADF STAT. No. WR 93
56° 12.4' N. 133° 31.4' W. Previous No. 126

WRANGELL, SUMNER STRAIT, SHAKAN BAY, CALDER BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Cold range. Observed temperatures: 47° F., 8/14/51; 46° F., 8/25/51; 44° F., 9/10/51; 48.5° F., 9/23/51; 47° F., 8/16/52; 46° F., 8/26/52; 44° F., 9/7/52; 44° F., 9/16/52; 49° F., 8/16/53; 45° F., 8/24/53; 48.5° F., 9/10/53; 46.5° F., 9/20/53.
VALLEY DESCRIPTION The E. fork flows through a flat valley with moderate gradient, timbered with tall spruce and cedar. The W. fork lies in a valley narrower than that of the E. fork, becoming steeper sided upstream.
DRAINAGE 14 square miles (polar planimeter). Precipitation-fed. Snowmelt from the snowfields at the headwaters and surface runoff are this stream's major water source.
STREAM MOUTH IDENTIFICATION Enters a tideflat 1 mile long and 0.5 mile wide. The stream enters the tideflat in the NW. corner and flows across the flat to the SE. corner.
ANCHORAGE Calder Bay dries to 0.4 mile from the bay entrance. Anchorage may be found near the entrance to the bay.
TRAILS AND SURVEY ROUTES Both forks are easily waded. The E. fork has numerous long gravel bars and a logging road is found a short distance above the forks which can be traveled. The E. fork has brushy banks.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 25'-30'/6"-8".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Sand and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A few moderately deep pools.
SPAWNING AREAS This zone is made up largely of riffles. Both chum and pink salmon spawn in this area.

UPSTREAM

LENGTH ACCESSIBLE >0.5 mile. AVERAGE WIDTH/DEPTH 40'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel below, larger rock above.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES A good sized tributary enters the W. fork 0.2 mile above the forks. Several other smaller tributaries enter both the E. and W. forks.
SCHOOLING AREAS Both forks have occasional pools.
SPAWNING AREAS The E. fork is the largest fork and has the most available spawning gravel. Good gravels are also found in the lower one-fourth mile of the W. fork.
GENERAL NOTES

144-62

CALDER BAY

ADF STAT. No. WR 93
Previous No. 126

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1930								
Sept 29	Weir	USBF	34,925		27,516		95 cohos	Final total. Weir installed July 15
1931								
Sept 23	Weir	USBF	31,959		17,125		193 cohos	Final total. Weir installed August 10
1950								
Sept 28		FWS					1,000 cohos	18,000 salmon, mostly chum
1951								
Aug 14	G 1.0	FRI	120	0	20	0		All in intertidal zone
Aug 23	G 0.5	FRI	8,500	0	300	1		
Sept 10	G 0.5	FRI	13,200	0	510	3		
Sept 15	0.5	FWS	10,000					
Sept 17	1.0	FWS	48,000		2,000			
Sept 23	G 0.5	FRI	12,700	725	20,400	870	2 cohos	
1952								
Aug 16	G 0.5	FRI	1	0	2	0		Rain raising water
Aug 26	G 0.3	FRI	721	0	250	0		2,000 observed off mouth
Sept 7	G 0.3	FRI	7,450	9	1,000	4		Few in bay
Sept 16	G 0.3	FRI	5,980	76	2,270	30	420 cohos	Few off mouth
Sept 22	G 0.3	FRI	5,000	>90	1,500	>13	100 cohos	
1953								
Aug 16	G 0.3	FRI	2,027	0	124	0		
Aug 20	A	FWS	6,500	0	0	0		2,000 at mouth. No spawning
Aug 23	G 0.1	FWS	0	0	0	0		400 at mouth
Aug 24	G 0.3	FRI	4,495	0	361	0		
Sept 8	A	FWS						Many pink. Escapement good
Sept 10	G 0.3	FRI	11,000	0	635	0	300 cohos, 1 red	Good showing chums off mouth
Sept 19	G 0.3	FRI	7,900	550	3,100	200	300 cohos	5,000-6,000 schooled chums
1954								
Aug 24	A 0.7	FRI	500	0	0	0		Water low. Streams in bay
Sept 8	A 0.7	FRI	22,000	0	0	0		36,000 at mouth
Sept 9	G 0.1	FWS	40,000					
Sept 10	A 0.7	FRI	15,000	0				6,000 chums at mouth
Sept 14	G	FWS	30,000					
1955								
Aug 7	G 0.3	FWS	400	0	0	0		
Aug 8	G 0.3	FWS	1,000	0	0	0		
Aug 17	G 0.3	FWS	10,000	0	0	0		
Aug 19	A 0.7	FRI	15,000	0	0	0		Some live chums observed
Aug 24	A 0.7	FWS	10,000	0	0	0		Estimated 15,000 in bay
Aug 26	G 0.3	FWS	4,000	0	0	0		Some chums
Aug 26	G	FWS	15,000					7,000 in bay, 1,500 coming
Aug 26	G	FWS			650			Left fork
Aug 28	A mkr	FRI	26,000					
Sept 4	A length	FWS	40,000					
Sept 5	A mkr	FRI	46,000					
Sept 11	G 1.7	FWS	25,000		500			
Sept 16	A mkr	FRI	75,000					
Sept 23	A mkr	FRI	65,000					
Sept 28	A mkr	FRI	10,000					

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1956								
Aug 9	G 1.0	FWS	50		50			
Aug 10	G 0.5	FWS	100					
Aug 12	G 1.0	FWS	150		100			
Aug 14	G 1.0	FWS	350		100			
Aug 14	A 0.5	FWS	200					
Aug 18	Intertidal	FWS	3,000					
Aug 18	G 1.0	FWS	2,500		500			
Aug 20	G 1.0	FWS						5,000-7,500 pinks
Aug 25	A marker	FRI	6,000					
Aug 28	G 1.0	FWS	20,000					
Aug 29	G 1.0	FWS	10,000		800			
Aug 29	A	FWS	3,000					
Sept 4	A length	FWS	35,000		2,000			
Sept 7	A marker	FRI	45,000					
Sept 12	A marker	FRI	45,000					
Sept 12	A 1.0	FWS	20,000					
Sept 13	G 1.5	FWS	55,000		10,000			
Sept 17	A marker	FRI	55,000					
Sept 23	A 0.7	FRI	50,000					Many dead pinks. Some chums
Sept 28	A marker	FRI	>30,000					
1957								
July 18	A 0.2	FWS	30					
Aug 5	G 1.5	FWS	700		55			
Aug 5	G 1.0	FWS	1,000		100			
Aug 7	G 1.0	FWS	1,900		175			
Aug 8	G 0.5	FWS	500		20			
Aug 8	G 1.0	FWS	2,400		100			
Aug 10	G 1.0	FWS	2,500		200			
Aug 12	G 1.0	FWS	4,500		800			
Aug 13	G 1.0	FWS	5,000		900			
Aug 15	G 1.0	FWS	5,500		1,000			
Aug 15	A 2.0	FWS						5,000 fish in stream, 10,000 at mouth
Aug 19	G 0.5	FWS	6,000		1,100			
Aug 23	G 1.0	FWS	6,700		1,600			
Aug 23	A 0.7	FRI	10,000					Hundreds of chums schooled
Aug 25	A 0.7	FRI	6,000					Schooled in intertidal zone
Aug 27	G 0.3	FWS	5,000	0	200	0		Jumps in bay
Aug 31	G 0.5	FWS	2,800		200			
Sept 2	A 0.7	FRI	8,000	0	0	0		>4,000 at mouth
Sept 9	A 0.7	FRI	10,000	0	0	0		>30,000 chums in outer bay
Sept 17	G 2.5	FWS-FRI	5,000	0	20,000	0	100 cohos	Fair
Sept 23	A 0.7	FRI	3,000		15,000			Some dead
Sept 23	G 0.7	FWS	2,000		11,000		50 cohos	
Sept 24	G	FWS	2.000		19,000		50 cohos	
1958								
Aug 16	G 0.5	FWS	1,000		700			
Aug 17	G 1.0	FWS	1,500		500			

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1958								
Aug 16	G 0.5	FWS	1,000		700			
Aug 17	G 1.0	FWS	1,500		500			
Aug 20	G 1.0	FWS	3,200		800			
Aug 24	G 0.7	FWS	8,000		1,700			
Aug 24	G 0.7	FWS	6,000		1,600			
Aug 25	A marker	FWS	7,000					
Aug 27	G 0.7	FWS	3,500		1,000		1 coho	Right fork
Aug 27	G 2.5	FWS	3,000		1,250		1 coho	
Aug 29	G	FWS	4,000		1,000			10,000 pinks, 1,000 chums at mouth
Aug 30	G 1.0	FRI	25,400	1	500			
Sept 7	G marker	FWS	8,000					
Sept 10	A	FWS	16,000		500			4,000 salmon on flats
Sept 17	G marker	FWS	11,000					
Sept 19	G 0.7	FWS	2,600		1,800		20 cohos	1,500 dead
Sept 21	G 1.0	FRI	24,500	1,300	17,500	700	500 cohos	
Sept 22	A length	FWS	16,000		500			2,000 dead
Sept 30	G mouth	FWS			2,000			
1959								
July 22	A	FWS						No fish observed
July 31	G 0.2	FWS	400		100			
Aug 10	G 0.5	FWS	5,600		200			
Sept 2	A 0.2	FWS	25,000					
1960								
July 24	A mouth	ADF						No fish observed
July 31	A mouth	ADF						No fish observed
Aug 19	A mouth	ADF						No fish observed
Aug 24	A mouth	ADF						One jump at mouth
1961								
July 28	A 0.5	ADF						3,000 mixed at mouth
Aug 8	A	ADF	5,000					5,000-10,000 at mouth
Aug 17	A 1.0	ADF	9,000					600 in intertidal zone
Aug 25	A 1.0	ADF	>30,000					
Sept 6	A 0.5	ADF	28,000					
Sept 7	G 1.0	ADF	20,000	many	2,000	many		5,500 chums at mouth
1962								
Aug 7	A 1.0	ADF						No fish observed
Aug 13	A 1.0	ADF	2,000					2,000 salmon in intertidal
Aug 16	A 1.5	ADF						3,000 at mouth, 3,000 in intertidal zone
Aug 20	A 1.0	ADF						10,000 at mouth, 7,000 in intertidal zone
Aug 21	A 2.0	ADF	2,500					10,000 at mouth, 3,500 in intertidal zone
Aug 25	G 0.2	ADF	3,900					12,000 in intertidal zone
Sept 4	A	ADF						30,000 in intertidal zone
Sept 6	G 2.5	ADF	8,600		250			15,000 pinks, 200 chums in intertidal zone

144-62

CALDER CREEK

ADF STAT. No.
WR 93
Previous No. 126

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1963								
July 17	G 1.0	ADF						20-30 in intertidal zone
July 29	A 0.2	ADF	500					500 in intertidal zone
Aug 2	G to falls	ADF	8,000		100			1,000 in intertidal zone
Aug 7	A 0.2	ADF	10,000					All in first two holes
Aug 21	G 1.0	ADF	16,000					1,000-2,000 mixed in intertidal zone
Aug 28	A to falls	ADF	15,000					12,000 below forks
Sept 5	G	ADF						1,500 in intertidal zone 100 mixed in intertidal zone

144-62

CALDER CREEK

ADF STAT. No. WR 93
Previous No. 126

U. S. Fish & Wildlife Service Weir Count

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
July 15		7						
16								
17		1						
18		7						
19		2						
20		73						
21		4						
22		4						
23		6						
24								
25								
26								
27								
28								
29	5	9						
30	4	13						
31		11						
Aug 1		18						
2		30						
3		22						
4	9	21						
5		11						
6	2	9						
7		5						
8		10						
9		10						
10		14						
11	62	260						
12								
13								
14	41	120						
15	14	69						
16	7	21						
17	4	12						
18		41						
19	4	41						
20	10	64						
21	61	176						
22	50	140						
23	80	175						
24	9	56						
25	72	361						
26	12	86						
27	18	143						
28	20	150						
29	32	161						
30	108	91						
31	91	89						
Sept 1	210	115						
2	258	249						
3	90	70						
4	450	100						
5	1,550	790						
6	280	110						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
Sept 7	630	171						
8	2,005	417						
9	1,690	202						
10	650	88						
11	1,026	104						
12	2,880	372						
13	3,751	369						
14	382	2,287						
15	481	6,483						
16	207	1,011						
17	170	1,238						
18	84	702						
19	341	5,202						
20	406	4,389						
21	1,430	60						
22	880	40	9					
23	4,630	140	7					
24	3,248	87	4					
25	986	46	16					
26	2,747	71	11					
27	1,440	60	17					
28	877		22					
29	431		9					
Total	34,925	27,516	95					
1931								
Aug 9								
10		15						
11								
12		88						
13	27							
14								
15	36	136						
16	35	141	3					
17	69	136						
18	22	86						
19	61	201						
20	31	81						
21	16	41						
22	3,345	1,491						
23	3,576	2,244						
24	6,504	1,786						
25	1,084	776						
26	741	137						
27	2,048	1,406						
28	2,761	1,884						
29	2,233	1,841						
30	683	641						
31	237	198						
Sept 1	318	97						
2	140	17	11					
3	88	18	8					
4	84	9	4					
5	172	24	5					
6	83	12	4					

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Sept 7	47	31	2					
8	600	427	23					
9	210	800	3					
10	167	159	18					
11	811	869	27					
12	204	177	4					
13	146	270	8					
14	371	95	3					
15	116	91	7					
16	471	84	6					
17	648	87	22					
18	1,456	173	7					
19	863	117	3					
20	638	104	11					
21	466	61	2					
22	167	31	5					
23	184	43	7					
24								
25								
26								Weir dismantled Sept 24
Total	31,959	17,125	193					

144-61
WR 94
HT
0.25 Mile

ADF STAT. No.
WR 94
Previous No. 128

144-61
56°15.7' N. 133°38.5' W.

WRANGELL, SUMNER STRAIT, HOLE IN THE WALL.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Cold range. Observed temperatures: 50.5°F., 8/16/52; 48°F., 8/25/52; 46.5°F., 9/6/52; 45°F., 9/17/52; 48°F., 8/15/53; 48.5°F., 8/24/53; 47.5°F., 9/10/53; 46°F., 9/19/53.
VALLEY DESCRIPTION Stream-cut. A high bluff outlines the W. side of the valley. The valley has a moderate gradient.
DRAINAGE 10 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters the SE. corner of the tideflat and breaks into numerous channels.
ANCHORAGE This basin offers good anchorage for small craft in all weather. The bay dries to 0.5 mile from its head.
TRAILS AND SURVEY ROUTES Bordered by dense woods and underbrush.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.6 mile. AVERAGE WIDTH/DEPTH 20'-40'/12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 20'-40'/12"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

144-61

ADF STAT. No.
WR 94
Previous No. 128

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1952								
Aug 16	G 0.2	FRI	0	0	0	0		Many jumps in bay
Aug 25	G 0.2	FRI	0	0	1	2		Several hundred off mouth
Sept 6	G 0.2	FRI	525	2	20	0		Few in bay
Sept 17	G 0.2	FRI	166	0	73	0	10 cohos	None off mouth
1953								
Aug 15	G 0.2	FRI	0	0	10	0		
Aug 24	G 0.2	FRI	1	0	1	0		
Sept 8	A	FWS						No fish observed in stream
Sept 10	G 0.2	FRI	167	0	140	0	2 cohos	Few chums off mouth
Sept 19	G 0.2	FRI	153		170	20		Few chums at mouth
1955								
Aug 15	G 0.2	FWS	0	0	0	0	Several cohos	2,000 pinks and cohos at mouth
Sept 8	G 1.6	FWS	5,350	0	0	0		Stream is fairly small
Sept 8	G 1.5	FWS	1,700		50			
1956								
Aug 24	A 0.5	FWS			50			
Sept 11	A 0.5	FWS	2,500					
Sept 17	G 0.7	FWS	8,500		300			
1957								
July 24	G 0.5	FWS						No fish observed
Aug 15	A length	FWS						No fish observed
1958								
Aug 17	A 0.5	FWS						No fish observed
Sept 19	G 0.1	FWS	275					
Sept 29	A length	FWS	150		50			
1959								
Aug 21	A	FWS	500					
1960								
	No surveys							
1961								
	No surveys							
1962								
Aug 21	A mouth	ADF						4,000 salmon at mouth
Sept 4	A mouth	ADF						3,000 salmon at mouth
1963								
Aug 22	G 0.2	ADF			30			5 in intertidal zone; 2 small schools at mouth
Aug 28	A mouth	ADF						2,000 at mouth
Sept 6	Bay	ADF						1 jump at mouth

144-61
56° 17. 2' N. 133° 35. 2' W.

ADF STAT. No.
WR 95
Previous No. 129

WRANGELL, SUMNER STRAIT, PORT PROTECTION, head of S. arm.

MAJOR SPECIES
ESCAPEMENT TIMING Middle. Aug. -Sept.
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE < 1.0 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Very small stream.

AVERAGE WIDTH/DEPTH 4'/8".

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 11	G 0.2	FWS	0	0				
Sept 16	G 0.7	FWS	308	18	333	94		
1953								
Sept 20		FWS	600					
1955								
Aug 24		FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							

ADF STAT. No.
WR

144-30
56° 17.3' N. 134° 04.8' W.

WRANGELL, SUMNER STRAIT, AFFLECK CANAL, 2.5 miles from head on W. shore.

MAJOR SPECIES Chum. OTHER SPECIES Pink.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 3.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Stream enters at head of only bight in the upper reaches of Affleck Canal.
ANCHORAGE Bear Harbor.
TRAILS AND SURVEY ROUTES None.
AERIAL SURVEY NOTES Poor for aerial survey.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 35'/8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION Halfway out bay.
HIGH TIDE LOCATION Edge of timber.
SCHOOLING AREAS Off mouth and in two small pools at head of tidewater.
SPAWNING AREAS Upper intertidal area only.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 25'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
MARKER DISTANCE None.
MARKER IDENTIFICATION
BARRIERS Barrier falls at 0.5 mile.
TRIBUTARIES None.
SCHOOLING AREAS Two small holes at head of tidewater.
SPAWNING AREAS Throughout first 0.5 mile of stream.
GENERAL NOTES

REGULATORY DISTRICT NO. 6

115-40
WR 36
0.25 Mile
HT

ADF STAT. No.
115-40 WR 36
56°02.2' N. 132°22.4' W. Previous No. 49

WRANGELL, CLARENCE STRAIT, McHENRY INLET, 0.2 mile from E. head of E. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Cold range. Observed temperatures: 48° F., 9/22/52; 44° F., 10/4/52; 47.5° F., 9/16/53; 45° F., 9/29/53; 48° F., 10/5/53.
VALLEY DESCRIPTION Stream-cut. The valley is broad for 1.5 miles; at this point it runs into the mountains and branches. Both branches are short and steep-sided.
DRAINAGE 6.6 square miles (polar planimeter). Precipitation-fed. Snowfields surround the upper valley.
STREAM MOUTH IDENTIFICATION Lies in the SE. corner of the tideflat at the head of the bay. The mouth of this stream is the most prominent bight at the head of the bay.
ANCHORAGE Affords good anchorage. Consult U. S. Coast Pilot for details on entering.
TRAILS AND SURVEY ROUTES Easily wadeable.
AERIAL SURVEY NOTES Impossible to aerial survey due to heavy overstory.

INTERTIDAL ZONE

LENGTH 0.3 mile. AVERAGE WIDTH/DEPTH 30'-40'/8"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two pools are utilized for schooling. The largest is 200 yards below the high tide mark, while the other, a shallow pool, is found at the high tide mark.
SPAWNING AREAS Excellent spawning facilities in the upper half. This area is used extensively by pinks.
GENERAL NOTES Joins WR 37 at the lower end of the intertidal zone.

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile. AVERAGE WIDTH/DEPTH 20'-40'/8"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel, boulders, and bedrock.
MARKER DISTANCE 0.5 mile.
MARKER IDENTIFICATION Black circle on white plastic marker on spruce tree on left bank.
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS The riffles are broken by small pools. A pool just above the high tide used extensively.
SPAWNING AREAS Almost continuous riffles with excellent spawning gravel.
GENERAL NOTES A small stream with almost continuous splits, windfalls and log tangles for 0.3 mile. Evidence of old logging operation along left bank.

ADF STAT. No.
WR 36
Previous No. 49

115-40 ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 28		FWS						3,200 pinks and chums
1951								
Sept 8-26	0.2	FWS-FRI	13,000		100			
Sept 26	G 0.2	FRI	12,200	100	50	15		Half of pinks spawning
Oct 6	G 0.2	FRI	5,800	700	0	0		
1952								
Sept 22	G 0.5	FRI	2,190	28	60	8		Most in intertidal
Oct 4	G 0.4	FRI	655	52	20	1		
1953								
July 29	G 0.4	FWS	75					3,000 at mouth
Aug 5	G 0.4	FWS						No fish observed
Sept 16	G 0.4	FRI	1,950	70	150	115		
Sept 25	G 0.2	FWS	400	0	4,000	0		
Sept 29	G 0.4	FRI	680	65	120	30		
Oct 5	G 0.4	FRI	290	145	30	90		
1954								
July 23	A	FWS			100			
Aug 2	A	FWS			1,000			
Aug 6	A	FWS			163			
Aug 18	A	FWS	50		500			
Aug 28	A	FWS			100			
Sept 8	A	FWS	3,000					
1955								
Aug 20	G 0.1	FWS	500	0	0	0		
Aug 21	A 0.4	FWS	100					Shade, difficult observation
Aug 22	G 1.0	FWS	1,600	0	200	0		
Sept 12	G 1.7	FWS	6,000		1,000			200 dead pinks and chums
Sept 16	A 0.4	FRI	9,000	0	0	0		
Sept 23	A 0.4	FRI	15,000					Some dead pinks and chums
Sept 28	A 0.4	FRI	15,000		0	0		Many dead pinks. Spawning
1956								
Aug 8	G	FWS	12		29			
Aug 9	G	FWS	30		60			
Aug 11	G 2.0	FWS	40		508			
Aug 15	G 2.0	FWS	50		550			
Aug 16	A 2.5	FWS	175		800			
Aug 23		FWS	300		1,600			
Aug 29	G 2.0	FWS	2,000		2,000			
Aug 31	G 2.0	FWS	7,000					
Sept 9	A 0.4	FRI	2,000					
Sept 12	A 2.0	FWS	3,000					
Sept 17	A 2.0	FWS	2,000					
Sept 20	A 2.0	FWS	15,000					
Sept 23	A 0.4	FRI	20,000					Few dead pinks. Some chums
Sept 28	A 0.4	FRI	20,000					Some dead
1957								
July 12	G 0.2	FWS	50					
July 17	G mouth	FWS	300					
July 24-27	G marker	FWS	2,000		250			

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1957								
July 29	G mouth	FWS	2,000					
July 30	G 0.2	FWS			50			
July 31	G mouth	FWS	1,500		60			
Aug 2	G 0.7	FWS	450		45			
Aug 4	G mouth	FWS	1,600		1,000			
Aug 7	A 2.0	FWS			1,500			
Aug 10	G mouth	FWS	500		700			
Aug 18	A mouth	FWS			300			
Aug 24	G mouth	FWS	300		500			
Sept 9	A mark	FRI			300			
Sept 12	G 0.5	FRI-FWS	630		320			
Sept 22	A mark	FRI	400					
Sept 27	A mark	FRI	600		200			
Season	G length	FWS	7,500		8,000			
1958								
Jul 24	A 0.5	FWS			200			
Jul 28	G 0.7	FWS			75			
Aug 3	G 1.0	FWS			400			500 chums at mouth
Aug 12	G 0.2	FWS	350		350			
Aug 16	G	FWS	400		200			
Aug 17	G 0.7	FWS			1,000			200 pinks at mouth
Aug 17	G 0.2	FWS	400		600	19		
Aug 26	G 1.0	FWS	600		300	31		
Sept 1	G 1.2	FRI	360	4	34	23		
Sept 7	A mark	FWS	400					
Sept 9	G 2.0	FWS	250		20			
Sept 18	G 1.5	FRI	1,710		71			
Sept 19	A 2.0	FWS	1,750					
Sept 27	G flats	FWS	2,000					
1959								
July 22	G 0.2	FWS	450					
July 30	G 0.7	FWS	650		250			
July 31	G 0.5	FWS	795		200			
Aug 1	G 1.0	FWS	900		250			
Aug 7	G 0.7	FWS	1,000		350			
Aug 9	G 1.0	FWS	1,000		350			
Aug 10	G 1.0	FWS	1,000		350			
Aug 12	G 1.0	FWS	2,800		400			
Aug 16	G 1.0	FWS	3,350		500			
Aug 19	A 1.2	FWS	5,000		1,000			
Aug 27	G 2.0	FWS	4,000	400	700			
Sept 6	G 0.3	ADF	850					
1960								
Aug 19		ADF						600 pinks in intertidal, chums present
1961								
July 27	A 0.3	ADF						3,000 chums and pinks at mouth
Aug 1	A 0.3	ADF						No fish observed
Aug 18	A 0.3	ADF						1,000 chums and pinks in intertidal zone

ADF STAT. No.
WR 36
Previous No. 49

115-40 ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1961								
Aug 29	G 0.8	ADF	1,500		400	200		Chum spawning 10,000-15,000 pinks and chums schooled at mouth
1962								
Jul 25	A 0.5	ADF			200			500 at mouth
Jul 26	A	ADF			200			200 mixed fish at mouth
Jul 30	A 0.5	ADF			200			1,000 at mouth, 4,000 in intertidal zone
Aug 3	A 2.0	ADF						1,000 in intertidal zone
Aug 7	A 0.5	ADF						6,000 at mouth, 400 in intertidal zone
Aug 16	A mouth	ADF						3,000 at mouth
1963								
Jul 24	A	ADF						No fish observed
Jul 28	G 0.7	ADF	125		125			3 in intertidal zone
Jul 29	G 0.2	ADF	150					200 pinks and 25 chums in intertidal zone
Aug 17	G 1.5	ADF	3,200		550			800 at mouth
Aug 27	A mouth	ADF						2,000 at mouth

N
0.25 Mile
Barrier Falls
HT

115-40 McHENRY LAKE CREEK ADF STAT. No. WR 37
56°02.3' N. 132°22.4' W. Previous No. 50

WRANGELL, CLARENCE STRAIT, McHENRY INLET, Head of E. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good. Extremely limited above the intertidal zone.
STREAM TEMPERATURES Normal range. Observed temperatures: 54°F., 9/12/50; 49°F., 10/2/50; 58°F., 9/15/51; 54°F., 9/26/51; 49°F., 10/6/51; 48°F., 9/22/52; 50.5°F., 10/4/52; 48.5°F., 9/16/53; 50°F., 9/29/53; 47°F., 10/5/53.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 16 square miles (polar planimeter). Drains McHenry Lake which is about 1 mile long and 0.5 mile wide.
STREAM MOUTH IDENTIFICATION Enters the same tideflat as WR 36. Lies in the NE. corner and runs through the W. side of the flat.
ANCHORAGE Refer to WR 36.
TRAILS AND SURVEY ROUTES Easily wadeable to falls.
AERIAL SURVEY NOTES Intertidal area good for aerial survey.

INTERTIDAL ZONE

LENGTH 0.6 mile AVERAGE WIDTH/DEPTH 50'-75'/3"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Good spawning gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A large pool about halfway up this zone is the major schooling area.
SPAWNING AREAS Spawning occurs throughout most of this zone. The upper part has a higher percentage of spawning gravel than the lower part, where large rock persists.
GENERAL NOTES The intertidal area makes up almost all the available spawning portions of this stream.

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile to falls AVERAGE WIDTH/DEPTH 45'/6".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Bedrock, large rock, and heavy gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A series of 2 falls 0.2 mile above the high tidemark are impassable to salmon. The first falls is 30' high and the second is 20'.
TRIBUTARIES None.
SCHOOLING AREAS Two deep holes below the first falls.
SPAWNING AREAS The spawning facilities in this section are fair but limited.
GENERAL NOTES The stream splits just above the intertidal zone, but rejoins a short distance upstream. Both sections are utilized.

ADF STAT. No.
WR 37
Previous No. 50

115-40 McHENRY LAKE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 17	G 0.1	FRI	8,050	3	900	67		May be excessive
Sept 27	G 0.1	FRI	19,000	600	2,600	350		
1950								
Sept 12	G 0.1	FRI	904	6	1,607	349		
Sept 25	G 0.1	FRI	1,743	0	1,628	688		
Oct 2	G 0.1	FRI	3,515	344	972	1,360		
1951								
Aug 31		FRI	880	12	120	15	10 cohos	
Sept 15	G 0.1	FRI	10,400	35	2,400	60	15 cohos	
Sept 25	G 0.1	FRI-FWS	24,100	200	2,430	500	10 cohos	
Oct 6	G 0.1	FRI	12,700	2,200	1,000	1,380		
1952								
Sept 22	G 0.1	FRI	900	40	3,060	120		
Oct 2	G 0.1	FRI	300	85	1,600	900	50 cohos	
1953								
Jul 29	G 0.1	FWS	75					3,000 at mouth
Aug 5	G 0.1	FWS						Few fish observed, water low
Sept 5	G 0.1	FWS						4,000 pinks and chums at falls
Sept 16	G 0.1	FRI	3,500	70	7,000	500	5 cohos	Many chums jumping in bay
Sept 23	G 0.5	FWS	4,000	0				
Sept 25	G	FWS	1,000	65	200	10		4,000 pinks in intertidal zone
Sept 29	G 0.1	FRI	1,700	500	7,400	3,200	70 cohos	
Oct 5	G 0.1	FRI	250	150	1,750	3,200		
1954								
Aug 13	A length	FWS			100			
Sept 8		FWS			1,000			
Sept 15		FRI	400	0	1,500	1,100		16,000 off mouth, 90% pink
Sept 22		FWS			1,000			
Sept 24		FRI	9,700	300	600			
1955								
Aug 20		FWS	400					3,000 off mouth
Sept 16		FRI	10,000					Schools in bay
Sept 23		FRI	25,000		5,000			
Sept 28		FRI	30,000		5,000			
1956								
Aug 15	G falls	FWS	25		250			
Aug 22	G falls	FWS	100					
Aug 26	G falls	FWS	100		100			600 in intertidal zone
Aug 29	G falls	FWS	200		100			
Aug 31	G falls	FWS	1,000		500			
Sept 9		FRI	6,000					30,000 off mouth
Sept 12	A falls	FWS	5,000					
Sept 20	A falls	FWS	10,000					
Sept 23		FRI	20,000		10,000			
Sept 28	A mark	FRI	40,000		20,000			

ADF STAT. No.
WR 37

115-40 McHENRY LAKE CREEK Previous No. 50

ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
July 29	G to falls	FWS			180			
July 30	G to falls	FWS	300		50			
Aug 2-7	G mouth	FWS	30		20			
Aug 7	G 4.0	FWS			200			
Aug 18	A mouth	FWS	200					
Sept 9	A mark	FRI			>1,000			No dead
Sept 12		FRI	630	0	320	0		
Sept 12	G to falls	FWS	200		6,000			
Sept 22	A mark	FRI	300		5,000			
Sept 27		FRI	2,000	100	6,000	1,000		
1958								
Aug 26	G to falls	FWS	600		300			
Aug 27	G to falls	FWS	1,200		200			
Aug 30	G	FWS	3,000		100			
Sept 7	A mark	FWS	6,000					Some chums
Sept 9	G falls	FWS	700		1,800			
Sept 19	A mouth	FWS	5,000		1,000			
Sept 26	A length	FWS	3,000		500			
Sept 27	G flats	FWS	2,000					
1959								
Aug 12	G falls	FWS			200			
Aug 16	G falls	FWS	50		200			
Aug 19	A falls	FWS			300			
Aug 28	G falls	FWS	125		250			
Sept 6	G falls	FWS	3,000		350			
Sept 14	G falls	FWS	650		30			
1960								
	No surveys							
1961								
July 27	A 0.1	ADF						Refer to No. 36
Aug 1	A 0.1	ADF						Few hundred at mouth
Aug 18	A 0.1	ADF						8,000 pinks and chums at mouth
Aug 29	G 0.1	ADF	4,000	0	500	0		Refer to No. 36
1962								
July 12	A mouth	ADF						No fish observed
July 26	A falls	ADF						200 in intertidal zone
July 30	A	ADF						1,000 at mouth
Aug 3	A	ADF						1,000 in intertidal
Aug 7	A falls	ADF						500 in intertidal zone
Aug 16	A	ADF						3,000 at mouth
1963								
July 28	G falls	ADF	100		100			250 in intertidal zone
Aug 17	G falls	ADF	4,200		50			800 at mouth

0.25 Mile
Partial
Barrier Falls
HT

115-20 NAVY CREEK ADF STAT. No. WR 38
56°03.7' N. 132°27' W. Previous No. 52

WRANGELL, CLARENCE STRAIT, BURNETT INLET, 2 miles NE. of Isle Pt.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good. Very extensive for the size of the stream.
STREAM TEMPERATURES Observed temperatures: 53° F., 9/17/49; 47° F., 9/28/53.
VALLEY DESCRIPTION A primitive coniferous basin approximately 6 miles long and 0.5 mile wide situated between precipitous peaks. Slopes toward the S W. Rugged terrain along creek except near the mouth.
DRAINAGE 8 square miles (aerial). Drains Navy Lake which is a collecting basin for rainfall, surface runoff and snowmelt.
STREAM MOUTH IDENTIFICATION Enters a small bight SE. of the first wooded island up the E. shore from Isle Point. Rocky beaches border the mouth, especially the W. side.
ANCHORAGE The inlet is too deep for good anchorage. Anchor inshore off old Burnett Cannery.
TRAILS AND SURVEY ROUTES Bear trails afford fairly easy access up either side of the stream. The left side is the most favorable for upstream travel near the mouth.
AERIAL SURVEY NOTES Too brushy for survey above intertidal zone.

INTERTIDAL ZONE

LENGTH 0.05 mile. AVERAGE WIDTH/DEPTH 30'/9".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Large boulders.
LOW TIDE LOCATION Mudflats.
HIGH TIDE LOCATION
SCHOOLING AREAS A deep pool below the falls offers good protection for schooling salmon.
SPAWNING AREAS Extensive.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles to falls. AVERAGE WIDTH/DEPTH 15'/4".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Bedrock, boulders, and rubble.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS At approximately 1.5 miles a falls presents a total block to pinks and chums.
TRIBUTARIES The only significant tributary is found on the right bank just above the lower end of the area in which the stream splits into many channels.
SCHOOLING AREAS Pools of assorted sizes are found from the intertidal zone to the falls.
SPAWNING AREAS Except for a short rapids above the 8' falls, there are excellent spawning gravels.
GENERAL NOTES The small falls at tidewater may delay pinks at certain water stages but does not appear to interfere generally. The lake is blocked by two falls.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 17	G 0.5	FRI	1,025	23	0	0		Fair showing. 20' falls at half-mile point
1953								
July 29	A 0.2	FWS						No fish observed
Sept 5	A 0.2	FWS	3,500	0	0	0		
Sept 23	A 0.2	FWS						Few pinks at mouth
Sept 25	A 0.2	FWS						100 pinks at mouth
1954								
Sept 22		FWS	50					
1955								
Aug 24		FWS	200					
Sept 12	G 0.1	FWS	2,500	30				
1956								
Sept 11	G	FWS	300					
Sept 17	A 0.5	FWS	200		200			
Sept 20	A 1.0	FWS	400					
1957								
July 28	G mouth	FWS						No fish observed
Aug 7	A 1.5	FWS	50					
Sept 12	G 0.5	FWS	550		100			
1958								
Aug 26	G 0.7	FWS						No fish observed
Sept 26	A 1.0	FWS						No fish observed
1959								
July 21	G 0.1	FWS	35					
July 31	G 0.2	FWS	500					300 pinks at mouth
Aug 12	G 0.2	FWS	3,000					400 pinks in tidal zone
Aug 19	G 0.2	FWS	2,500					
Aug 24	G 0.2	FWS	3,000					
Sept 6	G to falls	FWS	2,300					
Sept 13	G 0.5	FWS	2,500					
	G	ADF	2,300					Area for a much larger run
1960								
Aug 2	A mouth	ADF						Few jumps at mouth
Aug 19	A mouth	ADF						Few jumps at mouth
Aug 24	A mouth	ADF						Few jumps at mouth
1961								
July 27	A 0.1	ADF						800 off mouth
Aug 1	A 0.1	ADF						No fish observed
Aug 18	A	ADF						No fish observed
Aug 28	G 0.3	ADF	7,000-8,000					Several hundred off mouth
1962								
July 25	A mouth	ADF						No fish observed
Aug 7	A mouth	ADF						One jump
Aug 16		ADF						No fish observed
1963								
July 24	A mouth	ADF						4,000-5,000 at mouth
July 28	G 1.0	ADF	22,500					3,000 in intertidal zone; 1,000-2,000 at mouth
July 29	G 0.5	ADF	15,700					900 pinks at mouth; 2,600 pinks in intertidal zone
Aug 18	G falls	ADF	56,000		few			1,500 at mouth

115-20
WR39
A
HT
N
0.25 Mile

A

ADF STAT. No.
WR 39
Previous No. 53

115-20
56°09.2' N. 132°34.9' W.

WRANGELL, CLARENCE STRAIT, MOSMAN INLET, 1 mile from E. head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperature: 50° F., 9/16/53.
VALLEY DESCRIPTION Glacial origin. Flows through a broad flat with numerous scattered muskeg areas.
DRAINAGE 8 square miles (Aerial). Precipitation-fed. Drains a large muskeg area.
STREAM MOUTH IDENTIFICATION Enters a small bight S E. of the wooded island near the head of the inlet. The tideflat extends S. of the stream into a small bay.
ANCHORAGE NW. corner at head in 10 to 12 fathoms close to shore.
TRAILS AND SURVEY ROUTES The lower 0.4 mile contains large gravel bars which are easy to hike during normal water stages.
AERIAL SURVEY NOTES Poor stream for aerial survey due to dark water and heavy overstory.

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH 50'/3".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel and small boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A long narrow pool near the middle of the zone and a deep hole in the lower portion are the major schooling areas.
SPAWNING AREAS Nearly a continuous shallow riffle at low tide with good spawning facilities in the upper 200 yards.
GENERAL NOTES A bedrock constriction is found near the lower limit of this zone.

UPSTREAM

LENGTH ACCESSIBLE 3 miles. AVERAGE WIDTH/DEPTH 30'-40'/6"-12"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES A small stream joins WR 39 in the lower part of the intertidal zone.
SCHOOLING AREAS Spawning riffles are broken by pools and deep holes.
SPAWNING AREAS Nearly continuous spawning riffles in the distance surveyed.
GENERAL NOTES

ADF STAT. No.
WR 39

115-20 ESCAPEMENT RECORD Previous No. 53

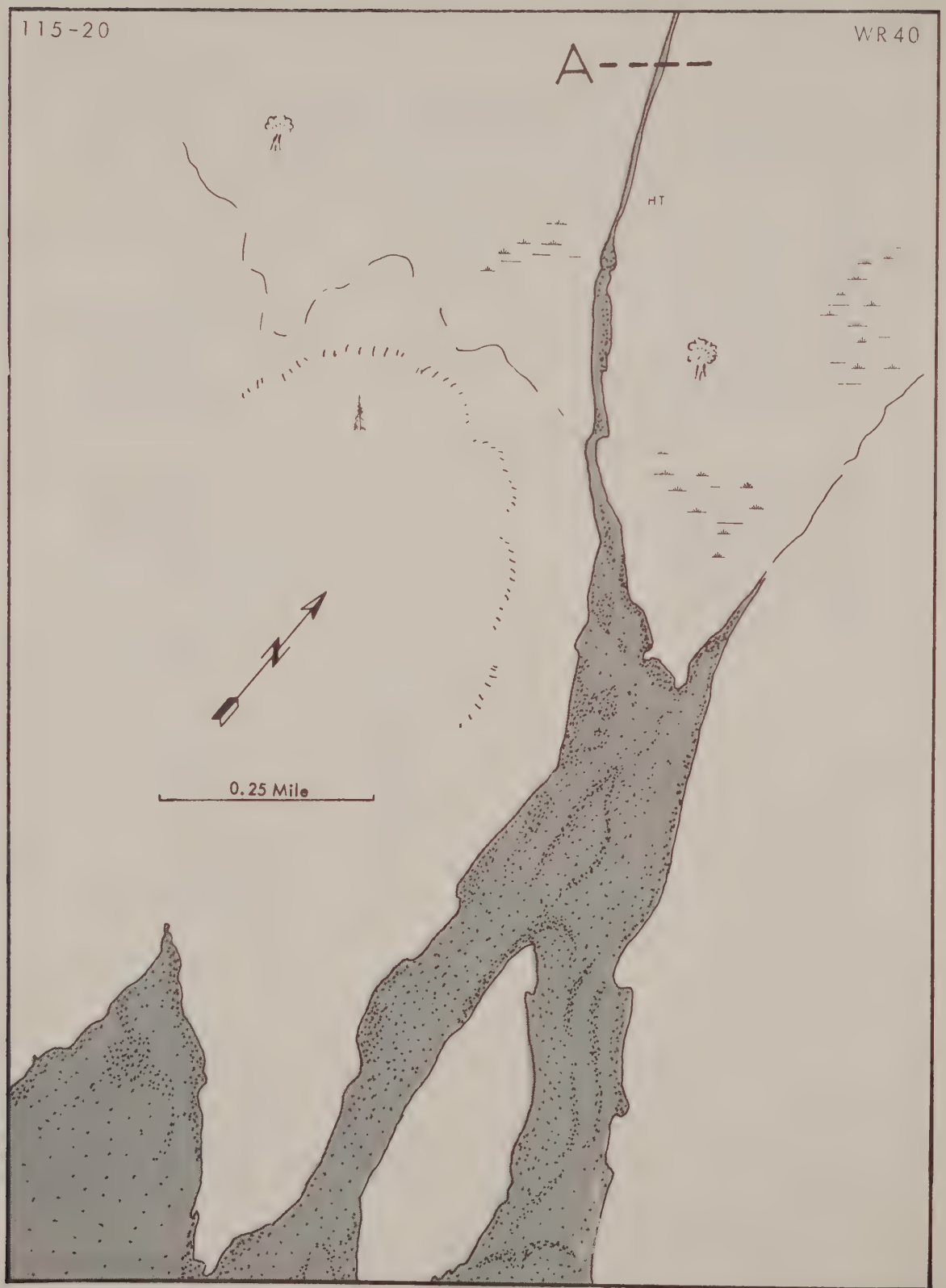
[Counts made by ground surveys are designated by G; aerial surveys by A]

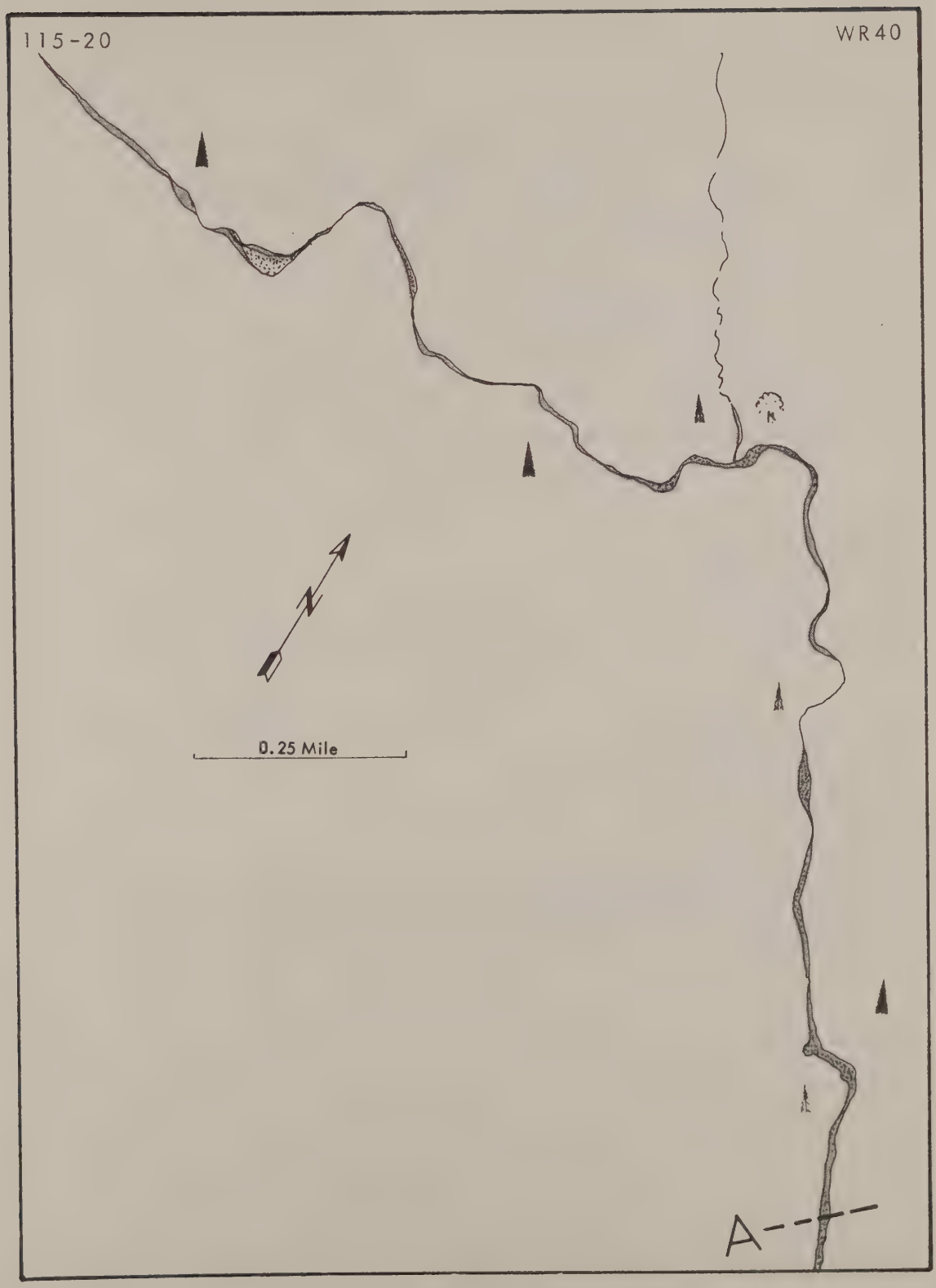
Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 28		FWS			133			
1951								
Sept 9	0.5	FWS	250		50			
1953								
July 29	A 0.2	FWS	300	0	0	0		
Sept 6	A 0.2	FWS						Few salmon observed
Sept 16	A 0.5	FRI	160	10	40	22		Exploratory survey
Sept 23	A 0.2	FWS						No salmon observed
Sept 25	A 0.2	FWS						No salmon observed
1954								
Aug 5	0.5	FWS			30			
Aug 19	A	FWS			20			
Sept 8		FWS						Good showing in stream and off mouth
1955								
Sept 23	A 0.2	FRI	10,000					Jumps in inlet. Some dead pink
Sept 28	A 0.2	FRI	9,000					Some dead chums
1956								
Aug 2	G 1.6	ADF			18			
Aug 4	G 2.6	ADF			177			
Aug 7	G falls	FWS			23			
Aug 9	G 2.6	ADF			717			
Aug 11	G falls	FWS			33			
Aug 14	G 2.6	ADF	28		1,109			
Aug 16	G falls	FWS	95		45			
Aug 18	G 2.6	ADF	54		1,198			
Aug 23		ADF			5,000			Tidal zone
Aug 23	G	ADF			1,000			
Aug 27	G falls	FWS	4,670		1,080	60		
Sept 12	A 2.0	ADF	5,000					
Sept 20	A 2.0	ADF	35,000					
Sept 20	A 4.0	FWS	80,000					
Sept 23	A mark	FRI	20,000					Some dead
Sept 28	A 0.2	FRI	37,000					
1957								
Aug 15	G 3.0	FWS			>1,050			
Aug 28	G 3.0	FWS			4,500	300		
Sept 9	A mark	FRI			300			
Sept 12	G 1.5	FWS	91		80			
Sept 22	A mark	FRI	1,000		1,000			
Sept 27	A mark	FRI	200					Some dead
1958								
Aug 26	G 1.5	FWS	300		200			
Aug 27	A	FWS	2,500		50			
Aug 28	A length	FWS	500		300			
Aug 30	G 2.0	FWS	1,000		500		10 cohos, 50 reds	
Aug 30	G 2.0	FWS	814		133		6 reds	

ADF STAT. No.
WR 39

115-20 ESCAPEMENT RECORD - Continued Previous No. 53

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
Aug 12	G 0.7	FWS			200			
Aug 19	A 2.0	FWS			800			
Aug 23	G 1.4	FWS	180		360			
Sept 13	G 0.7	FWS	4,500		6			
1960								
Aug 2	A mouth	ADF						School of 2,000 pinks between 39 and 40
1961								
July 27	A 0.5	ADF						200 pinks off mouth
Aug 18	A	ADF						20,000 chums and pinks off mouth
Aug 28	G 0.5	ADF	>10,000	0	0	0		
1962								
July 30	A 0.5	ADF						300 in intertidal zone
Aug 7	A 1.0	ADF						3,000 in intertidal zone 15,000 at mouth
Aug 16	A 2.0	ADF						3,000 at mouth
Aug 21	G 1.0	ADF	7,000		2,500			2,000 at mouth 700 in intertidal zone
1963								
Aug 17	G 2.0	ADF	1,700		525			300 pinks in intertidal zone


115-20
WR 40
A----
HT
0.25 Mile


115-20
WR40
0.25 Mile
A

115-20
56°09.8' N. 132°35.4' W.

ADF STAT. No.
WR 40
Previous No. 54

WRANGELL, CLARENCE STRAIT, MOSMAN INLET, Head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Cold range. Observed temperatures: 52° F., 9/13/50; 43° F., 10/2/50; 52°F., 9/15/51; 46° F., 9/25/51; 48° F., 10/5/51; 53° F., 9/21/52; 49° F., 10/3/52; 49° F., 9/16/53; 46° F., 9/28/53.
VALLEY DESCRIPTION Glacial. Drains a large muskeg area.
DRAINAGE 8.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Lies at the head of Mosman Inlet behind the wooded island. Enters on the W. side of the small, double point.
ANCHORAGE Refer to WR 39.
TRAILS AND SURVEY ROUTES Enter the channel on the W. side of the wooded island and secure boat to the W. bank.
AERIAL SURVEY NOTES Poor for aerial survey due to overstory and dark water.

INTERTIDAL ZONE

LENGTH 0.6 mile.
AVERAGE WIDTH/DEPTH 60'/6".
GRADIENT AND VELOCITIES Gentle
BOTTOM Fine broken gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS No real pools are found within this zone.
SPAWNING AREAS The upper one-third is a continuous riffle with excellent spawning facilities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 3 miles.
AVERAGE WIDTH/DEPTH 50'/6"-10".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Fine broken gravel, boulders, and slate.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None reported.
SCHOOLING AREAS Very few resting holes.
SPAWNING AREAS The lower three-fourths mile has excellent spawning riffles. Above this, boulders, and outcroppings become more common and the spawning is limited to small pockets.
GENERAL NOTES A large stream of gentle gradient with a long intertidal zone and almost continuous fine broken gravel.

ADF STAT. No.
WR 40

115-20 ESCAPEMENT RECORD Previous No. 54

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 17	G 0.7	FRI	3,370	6	162	4		Many fish off mouth
Sept 27	G 0.7	FRI	15,000	1,313	15	12		
1950								
Sept 13	G 0.7	FRI	356	3	100	17	1 red	
Sept 26	G 0.7	FRI	1,696	17	46	3		
Sept 28		FWS			505			
Oct 2	G 0.7	FRI	541	239	0	0		
1951								
Sept 9-26	0.7	FRI-FWS	5,300		500			
Sept 15	G 0.7	FRI	4,700	25	495	10	25 cohos, 3 reds	Some pinks spawning
Sept 25	G 0.7	FRI	10,300	100	737	120	27 cohos	65 percent pinks spawning
Oct 5	G 0.7	FRI	9,300	570	16	210	40 cohos	
1952								
Sept 21	G 0.7	FRI	1,030	65	105	63		Spawning in intertidal
Oct 3	G 0.7	FRI	36	4	17	3		Pink run over
1953								
Sept 16	G 0.7	FRI	270	0	240	1		
Sept 25	A 0.7	FWS						No salmon observed
Sept 28	G 0.7	FRI	280	22	70	4		
1954								
Sept 15	A 0.7	FRI	1,400	0	0	0		14,000 off mouth
Sept 27	A 0.7	FRI	9,000					Many dead pinks
1955								
Sept 13	G 1.2	FWS	5,000		100			
Sept 16	A 0.7	FRI	1,000	0	0	0		Schools in bay
Sept 23	A 0.7	FRI	14,000	0				Some live chums
Sept 28	A 0.7	FRI	20,000					5,000 above marker
1956								
Aug 7	G falls	ADF	23					
Aug 11	G falls	ADF			33			
Aug 16	G falls	ADF	95		45			
Aug 27	G 1.6	ADF	4,670		1,080			
Sept 9	A 0.7	FRI	20,000	0				Many live and dead chums 20,000 at mouth, 40,000 in bay
Sept 20	A 4.0	ADF	80,000					
Sept 23	A 0.7	FRI	30,000	0				Many live and dead chums
Sept 28	A mark	FRI	37,000					
1957								
Aug 29	G 1,6	FWS	500					
Sept 9	A 0.7	FRI		0	200			Few live pinks. Few dead chums
Sept 12	A 0.7	FWS	267	0	880	0		
Sept 22	A 0.7	FRI	2,000					Some live and dead pinks Several thousand pinks and chums above marker
Sept 27	A 0.7	FRI	100		100	1,000		None observed off mouth

ADF STAT. No.
WR 40

115-20 ESCAPEMENT RECORD - Continued Previous No. 54

SURVEYED			PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	
1958								
Aug 11		FWS						20 pinks off mouth
Aug 31	to dam	FRI	940		120	3		
Sept 7	A 0.7	FRI	0		200			Few pinks. None at mouth
Sept 18	to dam	FRI	380					
Sept 26	A 1.0	FWS	150					
1959								
Aug 12	G 0.4	FWS			20			
Aug 15	G to falls	FWS			2,000			
Aug 23	G 1.0	FWS	30		25			
Sept 13	G 1.5	FWS	2,000		15			
1960								
Aug 2	A mouth	ADF						Refer to stream #39 on August 2
Aug 24	A 0.3	ADF	150	0	·50	0		
1961								
July 27	A 3.0	ADF						No fish observed
Aug 18	A 3.0	ADF						Refer to stream #39 on August 18
1962								
July 30	A 1.0	ADF						2,000 schooled at mouth
Aug 16	A 2.0	ADF						No fish observed
Aug 21	G 2.0	ADF	7,650		600			20,000 at mouth, 2,500 in intertidal zone
1963								
July 29	G 1.2	ADF						No fish observed
Aug 17	G 2.0	ADF	2,300		600			200 pinks at mouth

115-20 STREETS LAKE CREEK ADF STAT. No. WR 41
56°05.2' N. 132°37.3' W. Previous No. 55

WRANGELL, CLARENCE STRAIT, ROCKY BAY, Head.

MAJOR SPECIES Red. OTHER SPECIES Pink, chum.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION A short stream-cut valley running between Streets Lake and Rocky Bay.
DRAINAGE 2.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters Rocky Bay through a long, narrow intertidal area. The bank on the NE. side of the stream rises sharply for the entire length of the intertidal zone and for a short distance upstream.
ANCHORAGE The entrance to Rocky Bay is bare in spots and is only suitable for boats drawing 2' or 3' of water. Small craft may anchor just eastward of Three Way Passage.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 41

115-20 STREETS LAKE CREEK Previous No. 55

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Sept 6	A	FWS						A few salmon at mouth, 25 dead
Sept 23	A	FWS						Few salmon observed
Sept 25	A	FWS	25					25 dead salmon at mouth
1954								
Season		FWS	2,000					
1955								
Aug 21	A length	FWS						No fish observed
Sept 13	G 0.5	FWS						18,000 salmon at head of bay
1956								
Sept 20	A length	FWS	20,000					Fish in bay, some dead
1957								
Aug 7	A 2.0	FWS	50					
1958								
Aug 26	G 0.5	FWS					40 reds	At mouth
Sept 19	A length	FWS	3,500					100 dead fish
1959								
Aug 12	G 0.2	FWS	20					In tidal zone
Sept 13		FWS						40 chums in tidal zone. Stream too hard to reach
1960								
	No surveys							
1961								
	No surveys							

142-40 PORCUPINE CREEK ADF STAT. No. WR 42
56°07.9' N. 132°39.5' W. Previous No. 56

WRANGELL, CLARENCE STRAIT, STEAMER BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Observed temperatures: 49° F., 9/20/49; 58° F., 9/4/51.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 2.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Meanders through a narrow, grassy flat.
ANCHORAGE Good anchorage is afforded at the head of Steamer Bay, but the holding ground is not good and S.E. winds draw with considerable force through the creek.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.6 mile AVERAGE WIDTH/DEPTH 20'/5".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Fine gravel and coarse sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A deep pool 100 yards below the high tide mark.
SPAWNING AREAS The upper half is composed of fine gravel and coarse sand. Spawning facilities here are good except for limited water flow.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 20'/8"-12".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Sand and fine gravel.
MARKER DISTANCE 0.2 mile.
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A small stream gently winding through the first one-fourth mile.

ADF STAT. No.
WR 42
Previous No. 56

142-40 PORCUPINE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 20	G 0.2	FRI	1,900	2	3	0		3,000 at mouth
1950								
Sept 26		FWS			630			
1951								
Sept 4	G 0.2	FRI						Saw 5 chums in one pool Stream so low fish cannot enter
1953								
July 30	G 1.0	FWS						No salmon observed
Sept 6	G 1.0	FWS						No salmon observed
Sept 23	G 1.0	FWS						Poor escapement
1954								
Sept 16	A	FWS	15,000					
1955								
Aug 21	A length	FWS						No fish observed
1956								
Sept 12	A length	FWS	300					
Sept 17	A length	FWS	3,000					Three large schools in bay
Sept 20	A length	FWS	20,000					Intertidal spawning good
1957								
	Not surveyed							
1958								
Sept12	G 0.5	FWS	150		50			
Sept19	A length	FWS	4,500					
Sept26	A 2.0	FWS	1,500					100 dead
1959								
Aug 30	G 0.5	FWS						No fish observed
Sept 11	G 0.2	FWS	3		2			650 pinks, 20 chums in tidal zone
1960								
	Not surveyed							
1961								
July 27	A 0.6	ADF						No fish observed
Aug 18	A 1.0	ADF						3,000 pinks at mouth
1962								
July 25	A length	ADF						No fish observed

142-30
56°15.5' N. 132°54.3' W.

ADF STAT. No.
WR 46
Previous No. 60

WRANGELL, CLARENCE STRAIT, SNOW PASSAGE, 2.5 miles NW. of Pt. Nesbitt.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION The stream flows through nearly flat muskeg terrain. Sparsely wooded except near the mouth.
DRAINAGE 30 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the head of a small lagoon which dries at low tide. The tidal flat of this stream projects 0.5 mile out from shore at low tide. A prominent bluff is just W. of the mouth.
ANCHORAGE Excellent anchorage may be had W. of Bushy Island. The anchorage is protected from all but NW. winds.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 50'/18".
GRADIENT AND VELOCITIES
BOTTOM Good gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A large, swift stream.

ADF STAT. No.
WR 46

142-30 ESCAPEMENT RECORD Previous No. 60

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 1		FWS	56					
1951								
Sept 10	0.5		1,500	10				
Sept 10	1.0	FWS	2,103					
1956								
Sept 11	A 1.0	FWS						No fish observed
Sept 17	G 0.5	FWS	1,000					
1957								
Aug 15	A 1.0	FWS						No fish observed
1958								
Aug 25	A length	FWS						No fish observed
Sept 10	A length	FWS	150					150 pinks at mouth
Sept 22	A length	FWS	50					
1959								
Sept 7	G 0.2	FWS	60					
1960								
	No surveys							
1961								
	No surveys							

142-30
56°17.8' N. 132°57.5' W.

ADF STAT. No.
WR 47
Previous No. 61

WRANGELL, CLARENCE STRAIT, SNOW PASSAGE, NE. of Bushy Island.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION The valley slopes towards the S. and is steep-sided. Appears to be a stream-cut valley.
DRAINAGE 8.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION A bluff rising to 1,000' outlines the shoreline E. of the mouth and runs N. as the E. side of the valley in which WR 47 runs.
ANCHORAGE Refer to WR 46.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 50'/8".
GRADIENT AND VELOCITIES
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A fairly large stream.

ADF STAT. No.
WR 47

142-30 ESCAPEMENT RECORD Previous No. 61

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 1		FWS	205		13			
1951								
Sept 10	0.2	FWS	4,000		50			
1953								
Sept 5	A 0.5	FWS						No fish observed
Sept 10	A 0.5	FWS						No fish observed
1956								
Aug 15	A 0.2	FWS						No fish observed
Sept 11	A 1.0	FWS	5,000					
1957								
Aug 15	A 1.0	FWS						No fish observed
1958								
Aug 25	A 0.2	FWS	350					
Sept 10	A length	FWS	800					
Sept 22	A length	FWS	200					
1959								
Sept 7	G 0.2	FWS	1,050					
1960								
	No surveys							
1961								
	No surveys							

142-20
56°20.7' N. 133°03.9' W.

ADF STAT. No.
WR 48
Previous No. 62

WRANGELL, CLARENCE STRAIT, 1 mile N. of Macnamara Pt.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 2.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE This shore affords only temporary anchorage during good weather.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM Good clean gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH 25'/8".

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ADF STAT. No.
WR 48

142-20 ESCAPEMENT RECORD Previous No. 62

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 1		FWS	390		57			
1951								
Sept 10	0.7	FWS	360					
1953								
Aug 5	A 0.5	FWS						No salmon observed
Sept 10	A 0.5	FWS						A few salmon observed
1956								
Aug 15	A 0.7	FWS						No salmon observed
Sept 11	A 0.5	FWS						No salmon observed
1957								
Aug 15	A 3.0	FWS						No salmon observed
1958								
Sept 20	A length	FWS	25					
1959								
Sept 7	G 0.5	FWS	5					
1960								
	No surveys							
1961								
	No surveys							

142-20 ST. JOHN CREEK ADF STAT. No. WR 49
56° 25.4' N. 132° 58.2' W. Previous No. 64

WRANGELL, SUMNER STRAIT, PT. ST. JOHN, Head.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION A wide valley with a slight gradient. The valley floor is largely muskeg, and the valley slopes are heavily forested.
DRAINAGE 2.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Lies at the SW. corner of the bay, immediately behind the wooded peninsula. The course of the stream nearly parallels the beach for one-fourth mile.
ANCHORAGE St. John Harbor affords good protection from all but N. winds. Enter midway between Northerly Island and Low Point.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES
GENERAL NOTES A small stream of little importance as a salmon producer.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES The stream forks 0.8 mile above the mouth.

142-20

ST. JOHN CREEK

ADF STAT. No.
WR 49
Previous No. 64

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 19		FWS	500		100			
1953								
Aug 5	A 1.5	FWS						No salmon observed
Aug 23	G 1.5	FWS						20 dead salmon
Sept 6	A 0.5	FWS						2 dead
1954								
Aug 19	A length	FWS			50			
1955								
Oct 7	G 0.2							No salmon observed
1956								
Sept 11	A 1.0	FWS	2,500					
Sept 24	G 0.5	FWS						No salmon observed
1957								
Aug 15	A 2.0	FWS	75					
Aug 23	A 1.0	FWS			500	100		
Aug 26	G 1.5	FWS	210		550			
1958								
Aug 17	A 0.5	FWS	800					
Sept 2	A length	FWS	800		800			
1959								
Aug 11	G 1.0	FWS	1,100		140			
1960								
	No surveys							
1961								
	No surveys							

142-10 FALL CREEK ADF STAT. No. WR 55
56°40.8' N. 132°55.4' W. Previous No. 78

WRANGELL, WRANGELL NARROWS, 1 mile N. of Rock Pt.

MAJOR SPECIES Coho. OTHER SPECIES Pink, chum, red.
ESCAPEMENT TIMING Middle. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Limited.
STREAM TEMPERATURES
VALLEY DESCRIPTION Flat, muskeg valley.
DRAINAGE 17.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Can be reached by road from Petersburg.
AERIAL SURVEY NOTES Too dark for survey.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 40'/24".
GRADIENT AND VELOCITIES Slight.
BOTTOM Mud, rocks.
LOW TIDE LOCATION Extended flats.
HIGH TIDE LOCATION Falls.
SCHOOLING AREAS At base of falls and off flats.
SPAWNING AREAS Very few.
GENERAL NOTES No observed spawning.

UPSTREAM

LENGTH ACCESSIBLE 7 miles. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Gentle.
BOTTOM Sand and fine gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Fall creek, flowing into Wrangell Narrows on the W. coast of Mitkof I., has an estimated total length of 7 miles. A partial block at tidewater has been laddered with a poorly designed FWS facility.

ADF STAT. No.
WR 55

142-10 FALL CREEK Previous No. 78

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 17		FWS			1,200		900 cohos	
1951								
Sept 1			65	10	20	5	5 cohos	
1953								
Season	A length	FWS						Poor
1954								
Season		FWS	1,298		330		1,956 cohos	
1955								
	See weir							
1956								
Season	G length	FWS	1,019		587			
1957								
Aug 6	G mouth	FWS					100 cohos	
1958								
July 22	G falls	FWS			1			
Aug 5	G falls	FWS			25			
Aug 14	G falls	FWS			20		100 cohos	
Aug 17	G falls	FWS			10		50 cohos	
1959								
July 22	A 1.0	FWS						No salmon observed
Aug 9	at falls	FWS					cohos present	No salmon observed
Aug 21	A 1.0	FWS					1 coho	No salmon observed
Oct 5	G falls	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

ADF STAT. No.
WR 55
Previous No. 78

142-10 FALL CREEK

U.S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1953								
July 15	0	0	1	0				
16-21	0	0	0	0				
22	2	0	0	0				
23	1	0	0	0				
24	3	0	0	0				
25	0	2	0	0				
26	1	2	0	0				
27	0	1	0	0				
28	3	2	0	0				
29	2	0	0	0				
30	0	1	0	0				
31	0	0	0	0				
Aug 1	0	0	0	0				
2	0	0	0	0				
3-7	0	0	0	0				
8	0	27	0	0				
9	5	17	7	0				
10	58	106	147	0				
11	31	20	13	0				
12	184	34	32	0				
13	26	11	19	0				
14	14	11	10	0				
15	71	54	371	0				
16	22	19	92	0				
17	11	1	17	0				
18	7	10	11	0				
19	1	4	3	0				
20	11	14	8	0				
21	22	18	65	0				
22	9	12	14	0				
23	13	6	21	0				
24	19	7	60	0				
25	5	7	72	0				
26	0	3	59	0				
27	2	0	31	0				
28	3	5	25	0				
29	0	3	42	0				
30	9	22	123	0				
31	0	16	92	0				
Sept 1	7	11	63	0				
2	5	3	27	0				
3	10	2	15	0				
4	2	3	16	0				
5	7	3	3	0				
6	9	2	47	0				
7	14	0	3	0				
8	26	0	5	0				
9	0	0	77	0				
10	0	0	16	0				

142-10

FALL CREEK - Continued

ADF STAT. No.
WR 55
Previous No. 78

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1953								
Sept 11	0	0	24	0				
12	0	0	19	0				
13	0	0	31	0				
14	0	0	19	0				
15	0	0	12	0				
16	0	0	5	0				
17	0	0	3	0				
18	0	0	16	0				
19	0	0	4	0				
20	0	0	1	0				
21	0	0	3	0				
22	0	0	10	0				
23	0	0	3	0				
24	0	0	5	0				
25	0	0	2	0				
Total	615	459	1,764	0				
1954								
July 1-15	0	0	0					
16	0	1	0					
17	0	1	0					
18	0	1	0					
19	0	0	0					
20	0	1	0					
21	3	0	0					
22	2	1	0					
23	3	2	0					
24	0	2	0					
25	0	3	0					
26	0	7	2					
27	0	11	0					
28	0	12	3					
29	1	17	2					
30	0	9	1					
31	0	10	0					
Aug 1	1	8	2					
2	2	10	0					
3	5	14	1					
4	0	8	1					
5	3	14	0					
6	0	18	0					
7	2	23	0					
8	5	9	3					
9	7	11	19					
10	5	8	20					
11	1	5	9					
12	0	19	8					
13	0	9	7					
14	3	12	4					
15	3	19	7					
16	8	17	11					
17	13	6	19					
18	37	9	138					

142-10

FALL CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1954								
Aug 19	16	19	161					
20	11	3	61					
21	3	2	18					
22	7	3	9					
23	6	1	11					
24	2	2	3					
25	11	3	2					
26	21	0	3					
27	17	2	211					
28	3	0	5					
29	3	0	1					
30	19	0	287					
31	138	0	208					
Sept 1	57	0	9					
2	87	0	11					
3	39	0	0					
4	46	0	0					
5	11	0	1					
6	23	0	2					
7	127	0	140					
8	110	0	229					
9	176	0	137					
10	185	0	119					
11	26	0	27					
12	21	0	9					
13	7	0	17					
14	9	0	6					
15	13	0	9					
16	0	0	3					
17	0	0	0					
Total	1,298	330	1,956					
1955								
July 1	0	0	0			1-10	56	
2	0	0	0			1-10	56	
3	0	0	0			1-8	56	
4	0	0	0			1-7	56	
5	0	0	0			1-3	57	
6	0	0	0			1-2	56	
7	0	0	0			1-2	56	
8	0	0	0			1-0	56	
9	0	0	0			1-0	54	
10	0	0	0			1-0	54	
11	0	0	0			0-9	55	
12	0	0	0	1		1-6	54	
13	0	0	0	0		1-6	52	
14	0	0	0	0		1-4	54	
15	0	0	0	0		1-0	54	
16	0	0	0	0		0-9	56	
17	0	0	0	0		0-8	56	
18	0	0	0	0		0-7.5	56	
19	0	0	0	0		1-2	52	

Date 1955	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
July 20	0	0	0	2		1-3	52	
21	0	0	0	0		1-1	54	
22	0	0	0	19		1-2	52	
23	0	0	0	0		1-5	55	
24	0	0	0	0		1-1	56	
25	0	0	0	0		0-9	57	
26	0	0	0	0		0-8	60	
27	0	0	0	39		0-7	60	
28	0	0	0	2		0-8	58	
29	0	0	0	0		1-1	56	
30	0	0	0	0		0-8	55	
31	0	0	0	0		0-7	57	
Aug 1	2	0	0	41		0-7	62	
2	0	0	0	1		0-7	62	
3	0	0	0	0		0-7	60	
4	0	0	0	0		0-7	58	
5	11	7	36	42		1-1	55	
6	18	5	22	0		3-2	53	
7	27	21	289	0		2-1	54	
8	27	15	176	0		1-7	56	
9	35	16	161	0		2-3	54	
10	93	64	158	0		2-1	53	
11	47	17	52	0		1-7	55	
12	21	11	34	0		1-6	55	
13	37	65	19	0		1-9	53	
14	33	13	22	0		2-7	52	
15	69	53	21	0		2-4	54	
16	56	68	81	0		2-7	53	
17	187	124	34	0		4-0	53	
18	43	16	29	0		2-2	54	
19	46	42	30	0		2-1	54	
20	22	11	32	0		0-9	56	
21	67	15	43	0		0-8	56	
22	31	5	7	0		0-8	56	
23	23	7	3	0		0-8	56	
24	20	9	2	0		0-8	56	
25	11	3	1	0		0-9	55	
26	9	0	40	0		1-2	55	
27	3	1	6	0		2-0	54	
28	2	0	1	0		1-7	55	
29	1	0	3	0				
30	14	3	36	0				
31	9	0	10	0				
Sept 1	12	0	19	0				
2	11	0	34	0				
3	5	0	16	0				
4	8	0	15	0				
5	3	0	7	0		1-0	56	
6	4	0	2	0		0-9	52	
7	1	0	1	0		0-9	52	
8	1	0	0	0		0-8	52	
9	0	0	1	0		0-8	52	

ADF STAT. No.
WR 55
Previous No. 78

142-10 FALL CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1955								
Sept 10	0	0	0	0		0-9	53	
11	0	0	1	0		1-0	54	
12	0	0	0	0		0-8	42	
13	0	0	0	0		1-8	52	
14	8	0	0	0		2-6	52	
15	5	0	0	0		2-9	51	
16	11	0	0	0		2-9	51	
17	3	0	0	0		2-8	50	
18	0	0	0	0		3-4	50	
Total	1,036	591	1,444	147				
1956								
July 8-11	0	0	0	0			55	
12	0	3	0	0				
13	0	1	0	0				
14	0	0	0	0				
15-16	0	0	0	0			56	
17	3	0	0	0				
18	0	2	0	0				
19	0	0	0	0				
20	1	0	0	0				
21	0	0	2	0				
22	0	0	2	7			53	
23	1	0	0	3				
24	2	0	1	1				
25	8	0	11	17				
26	4	0	5	0				
27	5	0	3	0				
28	1	2	0	0				
29	0	0	0	0			52	
30	5	3	0	0				
31	1	2	0	0				
Aug 1	7	2	4	0				
2	58	35	21	0				
3	34	24	23	0				
4	46	27	25	0				
5	11	7	6	0			52	
6	57	32	14	0				
7	40	25	18	0				
8	7	1	21	0				
9	14	17	62	0				
10	2	5	49	0				
11	5	4	14	0				
12	3	0	0	0			55	
13	0	1	0	0				
14	2	1	1	0				
15	16	3	4	0				
16	33	10	8	0				
17	16	8	9	0				
18	47	19	3	0				
19	84	36	12	0			53	

142-10

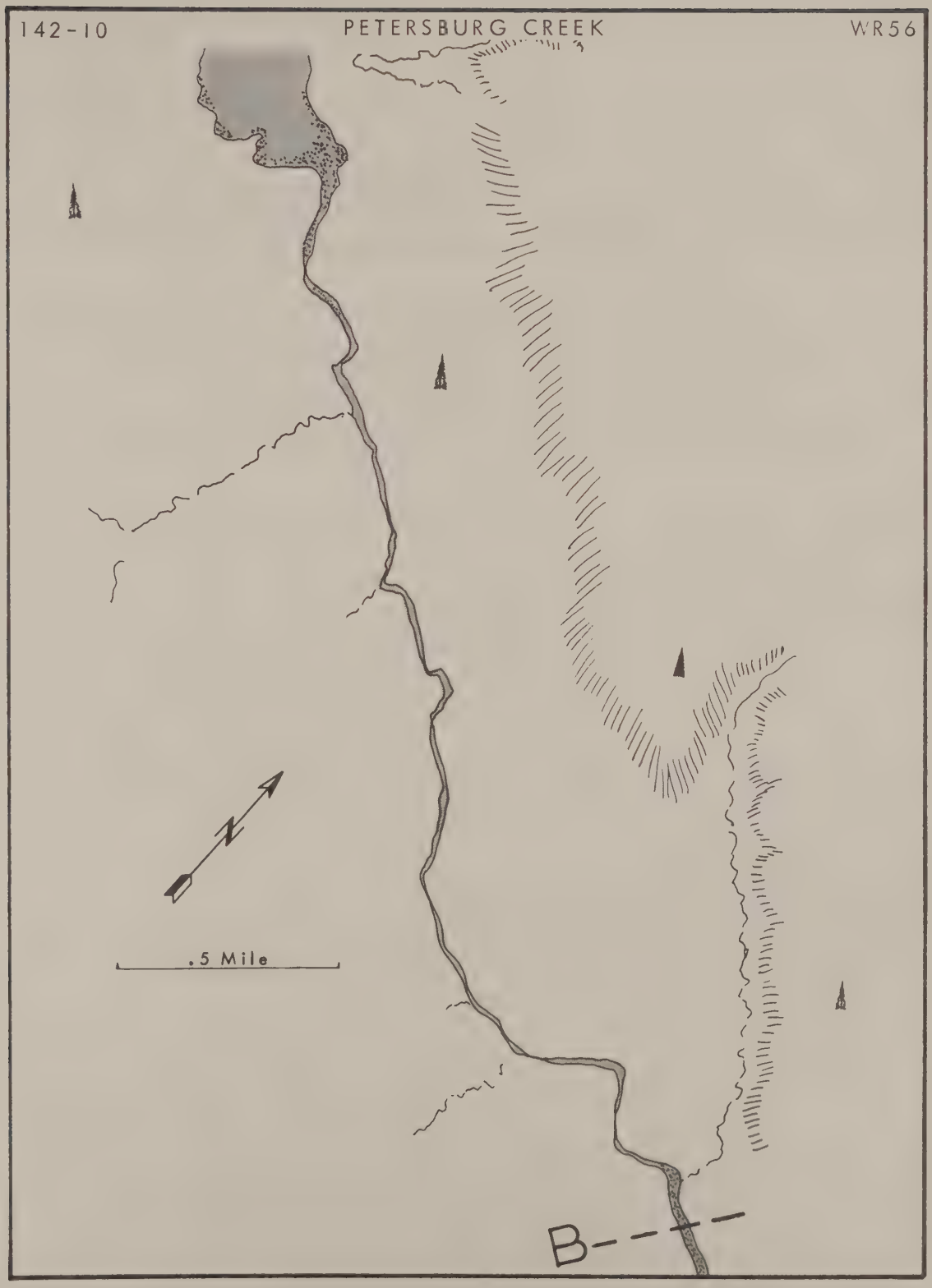
FALL CREEK - Continued

ADF STAT. No.
WR 55
Previous No. 78

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1956								
Aug 20	58	31	35	0				
21	120	41	54	0				
22	47	17	19	0				
23	33	16	18	0				
24	25	9	10	0				
25	51	13	8	0				
26	13	11	18	0			52	
27	25	12	7	0				
28	17	1	4	0				
29	15	0	3	0				
30	5	0	2	0				
31	11	5	6	0				
Sept 1	15	3	27	0				
2	32	3	9	0			50	
3	9	1	6	0				
4	4	0	11	0				
5	7	3	14	0				
6	5	2	11	0				
7	11	0	3	0				
8	3	0	4	0				
9-14	0	0	0	0				
Total	1,019	438	587	28				

142-10
PETERSBURG CREEK
WR56
A
0.5 Mile

142-10
PETERSBURG CREEK
WR56
B
HT
.5 Mile
A


142-10
PETERSBURG CREEK
WR56
N
.5 Mile
B

142-10 PETERSBURG CREEK ADF STAT. No. WR 56
56°50.2' N. 133°01.6' W. Previous No. 79

WRANGELL, WRANGELL NARROWS, NW. of Bayou Pt.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Normal range. Observed temperatures: 52° F., 9/5/52; 48.5° F., 9/16/52; 55.5° F., 9/4/53; 52° F., 9/11/53.
VALLEY DESCRIPTION Glacial origin.
DRAINAGE 36 square miles (polar planimeter). Drains Petersburg Lake, about 3.5 miles in length and 0.5 mile wide. The stream is fed by snowmelt and surface runoff.
STREAM MOUTH IDENTIFICATION Enters the N. end of the Wrangell Narrows opposite the town of Petersburg. A long, grass-bordered tidal flat is found at the mouth.
ANCHORAGE Boats may moor or anchor in the harbor at Petersburg.
TRAILS AND SURVEY ROUTES A forest service trail follows the left bank up to the lake. The intertidal area is very long and a survey should begin on a floodtide to enable boats to pass through this zone. Stream margins are brushy, but at normal water levels the stream can be waded.

INTERTIDAL ZONE

LENGTH 4.5 miles. AVERAGE WIDTH/DEPTH 200'/6".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel with sand in the lower part.
LOW TIDE LOCATION
HIGH TIDE LOCATION Above cabins - "mud banks".
SCHOOLING AREAS Some deep areas occur throughout.
SPAWNING AREAS The upper 2 miles offer excellent spawning facilities. The lower reaches have not been adequately surveyed.
GENERAL NOTES In this zone the stream splits and rejoins many times. Numerous grassy places.

UPSTREAM

LENGTH ACCESSIBLE 4 miles to lake. AVERAGE WIDTH/DEPTH 50'/10".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel and sand, shale boulders 4 miles upstream.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES One tributary flows from W. near Lake outlet.
SCHOOLING AREAS A few deep holes and resting areas.
SPAWNING AREAS Almost a continuous riffle area with excellent spawning facilities.
GENERAL NOTES Fair stream for aerial survey. Water has slight muskeg color during normal flow.

ADF STAT. No.
WR 56
Previous No. 79

142-10 PETERSBURG CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 17		FWS			3,000		4,000 reds	
1951								
July 24	A 8.0	FWS	1,000		2,000			Fish around estuary
Aug 25	A 6.0	FRI						Present in pools, some spawning
1952								
Sept 5	G 0.7	FRI	3,100	14	10	0		Visibility fair to poor
Sept 16	G 0.7	FRI	2,760	83	0	0		Peak of spawning over
Sept 19	G 4.0	FWS	2,000	2,000		50	150 dead cohos	
1953								
July 19	G 0.5	FWS	0	0	1,000	0		Fish observed at mouth
Aug 18	G 0.5	FWS	0	0	0	0		Good seeding
Sept 4	G 0.7	FRI	420	50	20	0	45 cohos	Spawning peak well past
Sept 11	G 0.7	FRI	210	0	0	0		Visibility poor
1954								
Aug 16	A	FWS	500		15,000			
Aug 24	A 0.5	FRI	2,500	0			Many reds	Some live chums, many dead
Sept 10	A 0.5	FRI	4,900			0		2,000 above marker
1955								
June 24	G 0.7	FWS					1,000 reds	At mouth
July 1	G 0.7	FWS						Few chums
July 6	G 0.7	FWS						Reds still going up creek
July 13	G 0.7	FWS						Many chums on flats
July 15	G 0.7	FWS	1				2 reds	Some chums
July 16	G 0.7	FWS						Some pinks and chums
July 20	G 0.7	FWS					8 cohos	
July 29	A 0.5	FRI	500					None observed off mouth
Aug 22	A 0.5	FWS						New fish showing
Sept 4	A 0.5	FWS						500 salmon observed, flood condition
1956								
Aug 12	G 1.0	FWS	100		100		5 cohos	
Aug 18	A length	FWS						Pinks and chums present
Aug 27	A 0.5	FRI	>10,000	0	0	0		Fresh
Sept 2	A 0.5	FRI	12,000	0	0	0		5,000-10,000 pinks and cohos at mouth
Sept 9	A 0.5	FRI	20,000			0		Few dead pinks, some live chums
Sept 12	A to lake	FWS	15,000					
1957								
July 9-15	G mouth	FWS	96		371			
July 16-23	G 1.5	FWS	3		500			
July 24	G 1.5	FWS			2,000			
July 26	G 2.5	FWS			2,000			
July 29	A 0.5	FRI	1,000				3,000 reds below lake	
July 31	G 3.0	FWS			1,000			
Aug 6	G 2.0	FWS	1,000					
Aug 7	A 0.5	FRI	2,000				>2,000 reds	

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
Aug 9	G 2.0	FWS			2,000			
Aug 20	A lake	FWS						7,500 fish, 500 dead
Aug 23	G 2.5	FWS	200		300			
Aug 26	A 0.5	FRI	500		500			
Sept 10	A 0.5	FRI	1,000					
Season		FWS	5,000		20,000		30,000 reds 3,000 cohos	
1958								
July 17	G 3.5	FWS			150			
Aug 11	A 0.5	FRI						None observed
Aug 14	G 3.0	FWS	3,000					
Aug 26	A 0.5	FRI						No salmon observed
Aug 27	G 4.5	FWS	600					
Aug 29	A to lake	FWS	1,500		400			
Sept 8	A 0.5	FRI	1,500					Some chum
Sept 10	A to lake	FWS	1,200		200			
Season		FWS	3,000		400			Estimate
1959								
July 18	G dam	FWS			100			
July 22	A	FWS			10		250 reds	
Aug 2	G barn	FWS	2		300			
Aug 9	G bank	FWS	200					
Aug 12	G lake	FWS	6,750		750			1,000 in school above beaver dam
1960								
June 23	A 4.0	ADF						No fish observed
July 21	A 4.0	ADF						Fish present. Water dark
July 30	G	ADF	300					Water too dark for estimate
Aug 7	G	ADF	5					Water too dark for estimate
1961								
July 23	A 4.0	ADF	1,000	0	0	0		
July 26	A 4.0	ADF	50	0	0	0		8,000 pinks off mouth
Aug 1	G	ADF	10,000	0	0	0		3,000 in intertidal zone
Aug 20	A 4.0	ADF	25,000	0	0	0	150 reds	Many carcasses
1962								
July 31	A length	ADF	2,000					
Aug 1	A length	ADF						Pinks present
Aug 11	G length	ADF	3,000				200 cohos	
1963								
Aug 31	G lake	ADF	2,300		6		10 reds	735 dead

142-10 OHMER CREEK ADF STAT. No. WR 57
56°44.1' N. 133°12.7' W. Previous No. 80

WRANGELL, DUNCAN CANAL, OHMER SLOUGH, Head.

MAJOR SPECIES Pink, coho. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug. -Sept.
SPAWNING FACILITIES Very limited.
STREAM TEMPERATURES Normal range. Observed temperatures: 51° F., 9/10/49; 51° 4., 9/26/49.
VALLEY DESCRIPTION A narrow valley.
DRAINAGE 18 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Extensive grass flats are found at the mouth.
ANCHORAGE Most of the inshore waters in Duncan Canal are foul. Anchorage may be had in Little Duncan Bay, but travel in other areas is unsafe without local knowledge. Temporary anchorage is found just S. of the slough.
TRAILS AND SURVEY ROUTES When surveying at low tide, leave the skiff on the beach S. of of the mouth. Wadeable in only a few places.
AERIAL SURVEY NOTES Muskeg-colored water makes survey difficult.

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 30'/5".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Fine gravel and larger rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS One-half mile of fine gravel appearing to be well suited for spawning is found at the upper end of this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.4 miles. AVERAGE WIDTH/DEPTH 25'/5".
GRADIENT AND VELOCITIES Gradual.
BOTTOM Gravel, small rock, bedrock, and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS The gravel areas are limited between the sections of bedrock and large rock. Only one good riffle occurs in the first quarter mile.
GENERAL NOTES

ADF STAT. No.
WR 57

142-10 OHMER CREEK Previous No. 80

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Live	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 10	G 0.2	FRI	250	45	1	8		
Sept 26	G 0.2	FRI	8	6	0	0		Run over, surveys too late
1951								
Aug 29	1.5	FWS	1,136		137			
1955								
Aug 10-24		FWS	59					
Aug 17	A 1.5	FWS						No salmon observed
Sept 4	A 1.5	FWS						None observed
1956								
Aug 21	A 0.7	FWS						None observed
1957								
Aug 20	A 2.0	FWS						None observed
1958								
Aug 11	A 0.2	FWS						None observed
Sept 9	A 0.5	FWS						None observed
1959								
July 18	G	FWS					2 cohos	Tidal zone
July 25	G	FWS					5 cohos	Tidal zone
Aug 10	G	FWS					20 cohos	Tidal zone
Aug 26	G	FWS					20 cohos	Tidal zone
1960								
	No surveys							
1960								
	No surveys							

142-10 DUNCAN CREEK ADF STAT. No. WR 58
56°45.8' N. 133°14.8' W. Previous No. 81

WRANGELL, DUNCAN CANAL, 2.5 miles NW. of Ohmer Slough.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Early. Aug. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Not great but size of stream is good.
STREAM TEMPERATURES
VALLEY DESCRIPTION Steep-sided.
DRAINAGE 18.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION A mudflat extends for 0.25 mile from the mouth.
ANCHORAGE Anchor just S. of island opposite Indian Pt.
TRAILS AND SURVEY ROUTES Stream has only one serious falls which is passable on left bank going downstream.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 40'/24".
GRADIENT AND VELOCITIES Moderate.
BOTTOM First 0.25 mile bedrock and rapids.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Fair.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.3 miles. AVERAGE WIDTH/DEPTH 30'/18".
GRADIENT AND VELOCITIES Slow.
BOTTOM Mostly boulders and bedrock.
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Extensive spawning 1.5 miles upstream.
GENERAL NOTES Stream mostly pools connected by short riffles.

ADF STAT. No.
WR 58

142-10 DUNCAN CREEK Previous No. 81

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 29	G 1.5	FWS	1,400	108	89	87		
1953								
Season		FWS						No salmon observed
1954								
Aug 24	G 1.5	FWS	8		59			
1955								
Aug 24		FWS						No salmon observed
1956								
Aug 21	A 0.7	FWS						No salmon observed
1957								
Aug 20	A 2.0	FWS						No salmon observed
1958								
Aug 20	A 0.5	FWS						No salmon observed
Sept 9	A 0.5	FWS						No salmon observed
1959								
July 10	G	FWS					12 cohos	Tidal zone
July 21	G	FWS					18 cohos	Tidal zone
July 29	G	FWS					30 cohos	Tidal zone
Aug 10	G 0.5	FWS					40 cohos	
Aug 18	G 0.5	FWS					50 cohos	
1960								
	No surveys							
1961								
	No surveys							

142-10
56°50.7' N. 133°21.9' W.

ADF STAT. No.
WR 59
Previous No. 83

WRANGELL, DUNCAN CANAL, TOWERS BAY, Head.

MAJOR SPECIES
OTHER SPECIES Coho.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent 1.93 miles.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 20.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Huge tideflat at entrance.
ANCHORAGE
TRAILS AND SURVEY ROUTES Banks difficult to hike because of heavy brush and steep contour.
AERIAL SURVEY NOTES Aerial survey reveals good spawning area above falls. Two falls--first passable and second impassable.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 70'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Good gravel in first mile.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES First mile with low banks and many gravel bars.

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 60'/2".
GRADIENT AND VELOCITIES
BOTTOM Boulders on bedrock.
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 59

142-10 ESCAPEMENT RECORD Previous No. 83

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1947								
Jun 12	A 2.0	FWS					Many cohos	Below falls
1954								
Aug 16		FWS			4,000	800		
1955								
Aug 17	A length	FWS						No salmon observed
1956								
Sept 13	A 2.0	FWS	12					
1957								
Aug 20	A 2.0	FWS						2,000 fish in stream
1958								
Aug 11	A 1.0	FWS						No salmon observed
1959								
Aug 11	A 1.0	FWS						No salmon observed
Aug 21	A	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

142-10
56° 45.7' N. 133° 20.8' W.

ADF STAT. WR 60
Previous No. 84

WRANGELL, DUNCAN CANAL, 3.5 miles NW. of Indian Pt.

MAJOR SPECIES Coho.
OTHER SPECIES Chum.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 24.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Tideflats.
ANCHORAGE N. of Indian Pt.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 30'/8".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel, sand, clay, and silt.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Little, if any, spawning facilities.
GENERAL NOTES Continuous riffles with occasional pool.

UPSTREAM

LENGTH ACCESSIBLE 4.6 miles.
AVERAGE WIDTH/DEPTH 80'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel--some boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Stream appears to have good spawning riffles.
GENERAL NOTES A wide stream with gradient flow. There are no impassable falls.

ADF STAT. No.
WR 60

142-10 ESCAPEMENT RECORD Previous No. 84

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Sept 13	G 0.7	FRI	0	0				Few live chum, many dead Exploratory survey. Stream flooding
Season		FWS	5,000					
1954								
Aug 16		FWS	1,000					
1955								
Sept 4	A 1.5	FWS						No salmon observed
1956								
Aug 21	A 1.0	FWS						75-100 seen in upper intertidal zone
Sept 12	A 2.0	FWS						No salmon observed
1957								
Aug 20	A falls	FWS						No salmon observed
1958								
Aug 11	A 1.0	FWS						No salmon observed
Sept 9	A 0.5	FWS						No salmon observed
1959								
Aug 11	A 1.0	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

142-10
56°40.1' N. 133°15.7' W.

CASTLE RIVER

ADF STAT. No.
WR 61
Previous No. 85

WRANGELL, DUNCAN CANAL, 3.5 miles W. of N. tip of Big Castle I.

MAJOR SPECIES Pink, coho. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Very limited in first half mile.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Wide, flat muskeg valley.
DRAINAGE 25 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the head of the bay behind Castle Islands on the N. side of the large tideflat.
ANCHORAGE Anchor in the lee of Castle Islands.
TRAILS AND SURVEY ROUTES This is a hard stream to survey without stranding the skiff. A maintained trail follows the right bank from the high tidemark. Shelter cabin at high tidemark.
AERIAL SURVEY NOTES Almost always muskeg colored; impossible to survey.

INTERTIDAL ZONE

LENGTH 1.5 miles. AVERAGE WIDTH/DEPTH 60'/3"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mostly small gravel.
LOW TIDE LOCATION Extensive flats.
HIGH TIDE LOCATION Falls; shelter cabin.
SCHOOLING AREAS Below falls.
SPAWNING AREAS Very few.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 100'/2"-12".
GRADIENT AND VELOCITIES Very gentle.
BOTTOM Sand and fine gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Many pools.
SPAWNING AREAS Gravel riffles throughout.
GENERAL NOTES A large river which has a bedrock rapids for the first 500 yards. Cohos appear to be major species in recent years. Good surveys are lacking due to aerial survey conditions.

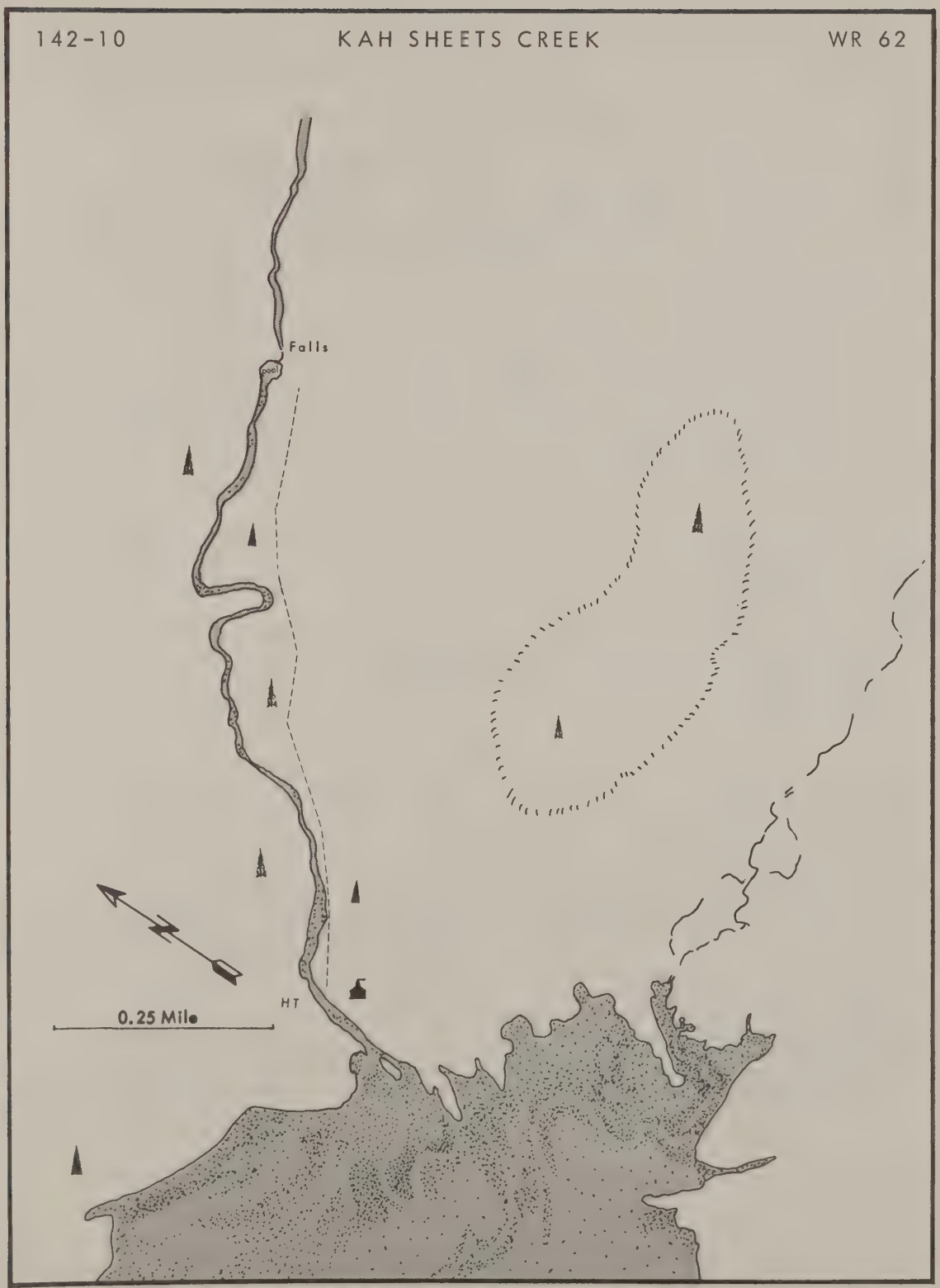
ADF STAT. No.
WR 61
Previous No. 85

142-10 CASTLE RIVER

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 10	G 0.5	FRI	18	11	3	0		
1951								
Aug 28	1.5	FWS	125		58			
1953								
July 30	A 1.5	FWS						No fish observed
Sept 13	G 0.5	FRI	0	0	0	0		Few dead chum. Exploratory survey. Stream flooding
1954								
Aug 10		FWS			300			Intertidal
Aug 16	G falls	FWS	1,000		8,000		1,000 cohos	
Aug 16	A	FWS			10,000			
Aug 20		FWS	2,000		8,000			
Aug 24	A 4.0	FRI	0	0				Some live chum
Aug 25	mouth	FWS					5,000 cohos	
Season		FWS	2,000					
1955								
Aug 17	A length	FWS						No fish observed
Aug 24	A 2.0	FWS						No fish observed
Sept 22	A 2.0	FWS						No fish observed
1956								
Aug 16	G	FWS						5,000 off mouth
Sept 12	A 0.8	FWS	300					
1957								
Aug 4	G 1.0	FWS			25			
Aug 20	A 10.0	FWS						32,000 in stream 500 dead
1958								
Aug 9	G 1.0	FWS						Schools at mouth
Sept 9	A 2.0	FWS						400 salmon in stream
1959								
July 23	G to falls	FWS			2			
July 30	G to falls	FWS			3			
Aug 2	G to falls	FWS			8			
Aug 9	G to falls	FWS			150			
Aug 10	G	FWS			200			
Aug 15	G to falls	FWS			50			
Aug 19	G to falls	FWS			25			
Aug 21	A	FWS						No salmon observed
Aug 25	G to falls	FWS			100			
1960								
Aug 19	A	ADF						Too dark for estimating
1961								
Aug 20	A 2.0	ADF						No fish observed


Falls
pool
HT
0.25 Mile

ADF STAT. No.

142-10 KAH SHEETS CREEK WR 62

56°31.8' N. 133°08.6' W. Previous No. 86

WRANGELL, SUMNER STRAIT, KAH SHEETS BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.

ESCAPEMENT TIMING Middle. Aug.-Sept.

SPAWNING FACILITIES Fair.

STREAM TEMPERATURES Normal range. Observed temperatures: 62°F., 8/12/50; 56°F., 9/8/50; 53°F., 9/23/51; 49°F., 10/3/51; 56.5°F., 8/15/52; 58°F., 8/24/52; 51°F., 9/6/52; 51°F., 9/18/52; 58°F., 8/14/53; 56°F., 9/5/53; 52.5°F., 9/13/53.

VALLEY DESCRIPTION The stream winds through a bedrock canyon, heavily wooded along the stream. A few soft muskeg areas.

DRAINAGE 18 square miles (polar planimeter).

STREAM MOUTH IDENTIFICATION Enters the NW. corner of the bay. Heavily wooded near the mouth. Grass flats can be seen on both sides of the mouth.

ANCHORAGE Small craft may anchor in midchannel off the FWS stream guard camp which is on the N. end of the island nearest the mainland at the bay entrance. Care must be taken in entering.

TRAILS AND SURVEY ROUTES If unfamiliar with the bay, go upstream at or near high tide because the bay dries almost entirely at low water. A trail follows the left bank. Wadeable at most water levels.

AERIAL SURVEY NOTES Water usually muskeg colored.

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 60'/10".

GRADIENT AND VELOCITIES Gentle.

BOTTOM Clean gravel.

LOW TIDE LOCATION

HIGH TIDE LOCATION

SCHOOLING AREAS A large pool is the main schooling area lying a short distance below the high tide mark and along the wooded point on the W. side of the stream.

SPAWNING AREAS Spawning occurs throughout the upper half of this zone. The upper 200 yards furnishes an extensive spawning area that is heavily used by both pinks and chums.

GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.3 miles to lake. AVERAGE WIDTH/DEPTH 25'/8".

GRADIENT AND VELOCITIES Moderate to steep.

BOTTOM Clean gravel and bedrock.

MARKER DISTANCE

MARKER IDENTIFICATION

BARRIERS A 20' falls three-fourths of a mile upstream is a block to pinks and chums. Cohos and reds ascend with some difficulty. About 0.2 mile above first falls, another falls is possible barrier at high water.

TRIBUTARIES One-half mile upstream the stream splits into numerous channels, but rejoins further upstream.

SCHOOLING AREAS The major schooling area is the pool below the falls. Smaller pools are scattered through the area below.

SPAWNING AREAS Spawning areas are limited by bedrock outcrops. The best area is found in the first 150 yards above the intertidal zone.

GENERAL NOTES There is a good cabin with bunks just behind the edge of the timber on the E. side of the mouth. This marks the beginning of the trail. Cabin also at end of trail on lake shore. Skiff available also. Preliminary engineering survey of two falls completed in 1963 by Gil Tiemer.

ADF STAT. No.
WR 62
Previous No. 86

142-10 KAH SHEETS CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 9	G 0.7	FRI	7,900	82	2,300	481		Very good escapement
Sept25	G 0.7	FRI	8,900	824	406	162		Very good escapement
1950								
Jul 8		FWS					3,500 reds	
Sept 8		FWS	411		4,300			
1951								
Aug 16		FWS			300			4,500 at mouth
Aug 31	1.0	FWS-FRI	14,000		500		5 cohos, 2 reds	
Sept 13	G 0.7	FRI	13,300	0	4,700	0		1 dead red. Stream high
Sept23	G 0.7	FRI	11,700	600	890		50 cohos	1 dead red. 95% spawning
Oct 3	G 0.7	FRI	5,500		80			Many hundred dead
1952								
Aug 15	G 0.7	FRI		0	0	0	550 reds	Some live pinks. 100 dead reds
Aug 24	G 0.7	FRI	1,100	1	3,400		Few cohos	Some dead cohos
Sept 9	G 0.7	FRI	400	6	1,500	72		Visibility poor
Sept 18	G 0.7	FRI	660	210	540	203		Spawning peak past
1953								
Aug 14	G 1.0	FRI	0	0	0	0	2,000-5,000 reds	
Sept 5	G 0.7	FRI	180	0	2,880	205	30 cohos, 2 reds	
Sept 13	G 0.7	FRI	1	0	3,800	119	1 reds	35 dead reds. Stream high
1954								
Aug 24	A 0.7	FRI	1,300	0	1,300	0		Cohos and reds present
Sept 7	A 0.7	FRI	250	0	2,100			Some dead chums. Visibility poor
1955								
Aug 15	A 0.7	FWS	0	0	0	0		1 fish at rapids
Aug 17	A 0.7	FWS	0	0	0	0		Flooded. Poor visibility
Aug 19	A 0.7	FRI	>100					
Aug 22	mark	FWS	1,000		>300			
Aug 24	A 2.0	FWS	0	0	0	0		No salmon observed
Aug 26	A 0.7	FRI	3,000	0				Chums, cohos, reds present
Sept 5	A 0.7	FRI	>5,000	0				Cohos and reds present
Sept 6	A length	FWS	5,000		1,000		500 cohos	
Sept 7	G 1.2	FWS	500		1,800		100 reds	
Sept15	G 2.5	ADF	1,500		400			
1956								
Aug 21	A to lake	FWS						200 schooled in tide channels
Aug 26	A 0.7	FRI	3,000	0	0	0		None observed at mouth
Sept 4	A length	FWS						Pinks and chums present
Sept 7	A mark	FRI	11,000					None observed at mouth
Sept17	A 0.7	FRI	9,000					Some dead pinks
Season	G tidal zone and bay	FWS	10,200		12,400		15,500 reds 12,700 cohos	

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
July 1	G falls	FWS					380 reds	
July 9	G 0.2	FWS					350 reds	
July 19	G 0.2	FWS					1,000 reds	In bay
Aug 1	G to falls	FWS					200 reds	
Aug 5	G to falls	FWS					100 reds	
Aug 14	G 0.5	FWS	20		2			
Aug 17	G falls	FWS	50		50		10 cohos	
Aug 20	A lake	FWS						4,800 in stream, 500 at mouth
Aug 21	G 1.0	FWS	300		550		50 cohos, 10 reds	
Aug 23	G 0.5	FWS	350		750		200 cohos, 30 reds	
Aug 24	G 1.5	FWS	450		6,000		500 cohos	
Aug 25	G 1.0	FWS	300		4,000		250 cohos	
Aug 25	A mkr	FRI	1,000		>200			
Aug 26	G 2.5	FWS	500		7,000		20,000 cohos	
Aug 27	G 0.5	FWS	250		2,000			
Aug 28	G 0.7	FWS	280	74	750			Coho above falls
Aug 28	G falls							Estimated 20,000 coho
Sept 1	G 1.2	FWS-FRI	15		600			
Sept 2	A mkr	FRI	700		1,100			
Sept 18	G 0.5	FWS-FRI	20		600			
Season	G length	FWS					1,000 reds	
1958								
July 28	G 1.5	FWS			800		6 reds	
Aug 11	G 0.1	FWS			400			
Aug 17	G lst falls	FWS			500			
Aug 25	A 0.7	FWS	0		200			None observed off mouth
Aug 28	G lst falls	FWS			10,000			
Aug 28	G to falls	FRI	840		950	50		
Sept 2	A lake	FWS	200		5,000	250		
Sept 14	G 1.5	FWS	1,100		100	200	200 cohos, 25 reds	
Sept 17	A 0.7	FWS	500	0	0	0		Some dead pinks
Sept 18	A lake	FWS			4,000			
1959								
July 1	G 0.5	FWS						No salmon observed
July 21	G mouth	FWS						Two schools on grass flats
July 27	G to falls	FWS			3		1,000 reds	
Aug 3	G up falls	FWS						
Aug 7	G flats	FWS						Small schools in riffles
Aug 10	G 0.5	FWS			4			
Aug 16	G to falls	FWS					650 reds and cohos	
Aug 18	G 0.2	FWS	6		600			
Aug 21	A	FWS	1,500					
1960								
June 4	G 0.7	ADF	0	0	0	0		Steelhead in pools
July 31	A 2.3	ADF						No fish observed
Aug 19	A 2.3	ADF	few					Jumps in lake
Aug 24	A 0.3	ADF						30 chums at mouth

ADF STAT. No.
WR 62

142-10 KAH SHEETS CREEK - Continued Previous No. 86

ESCAPEMENT RECORD

Date	SURVEYED Mile	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1960								
Sept 1	G 0.7	ADF	25	0	few	0	75 cohos	150 cohos at mouth
Sept 12	A 2.3	ADF	few	0	200	0		
1961								
July 4	A 2.3	ADF						1 jump off mouth, possibly red
Aug 20	A 2.3	ADF	1,000					400 fish in intertidal zone
1962								
July 26	A 0.5	ADF						200 in intertidal zone
Aug 1	A 1.0	ADF						No fish observed
Aug 29	A	ADF						5,000 in intertidal zone
1963								
Aug 22	G lake to falls	ADF	50		150		2 reds, 300 cohos	4,000 in intertidal zone

0.25 Mile
HT

143-10 TOTEM CREEK ADF STAT. No. WR 63
56° 29. 8' N. 133° 23' W. Previous No. 88

WRANGELL, SUMNER STRAIT, TOTEM BAY, 3 miles E. of head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug. -Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. Observed temperatures: 50°F., 9/25/49; 60°F., 8/11/50; 42.5°F., 9/30/50; 54°F., 8/14/51; 56°F., 8/24/51; 52°F., 9/23/51; 61°F., 8/14/52; 52°F., 8/25/52, 49°F., 9/8/52; 51°F., 9/18/52; 54°F., 8/15/53; 55°F., 9/5/53.
VALLEY DESCRIPTION
DRAINAGE 28 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters Totem Bay on the W. side of a sandspit near the middle of the bay. The mouth is a prominent cut in the beach.
ANCHORAGE The bay affords protection from all except S. winds. Favor the E. shore when entering.
TRAILS AND SURVEY ROUTES Long gravel bars follow the stream in most areas making travel fairly easy. Surveyors may hike over the sandspit near its middle and survey the intertidal zone on way down. The skiff should be pulled up on the beach E. of the mouth.
AERIAL SURVEY NOTES Appears to be open enough in most areas for satisfactory aerial observation.

INTERTIDAL ZONE

LENGTH 0.8 mile. AVERAGE WIDTH/DEPTH 60'-75'/10"-16".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Clean gravel over entire area.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two large pools in the upper 200 yards and a deep hole opposite the tip of the spit are the main schooling areas.
SPAWNING AREAS The gravel bottom in the upper half is extensively used by both pink and chum salmon. The bottom appears to be suited for spawning between the lower pool and the upper pools.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles. AVERAGE WIDTH/DEPTH 30'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and broken rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None reported.
SCHOOLING AREAS Holes are interspersed throughout the distance surveyed.
SPAWNING AREAS Spawning takes place in all riffle areas. Some areas of large broken rock and bedrock occur in the lower half mile.
GENERAL NOTES

ADF STAT. No.
WR 63

143-10 TOTEM CREEK Previous No. 88

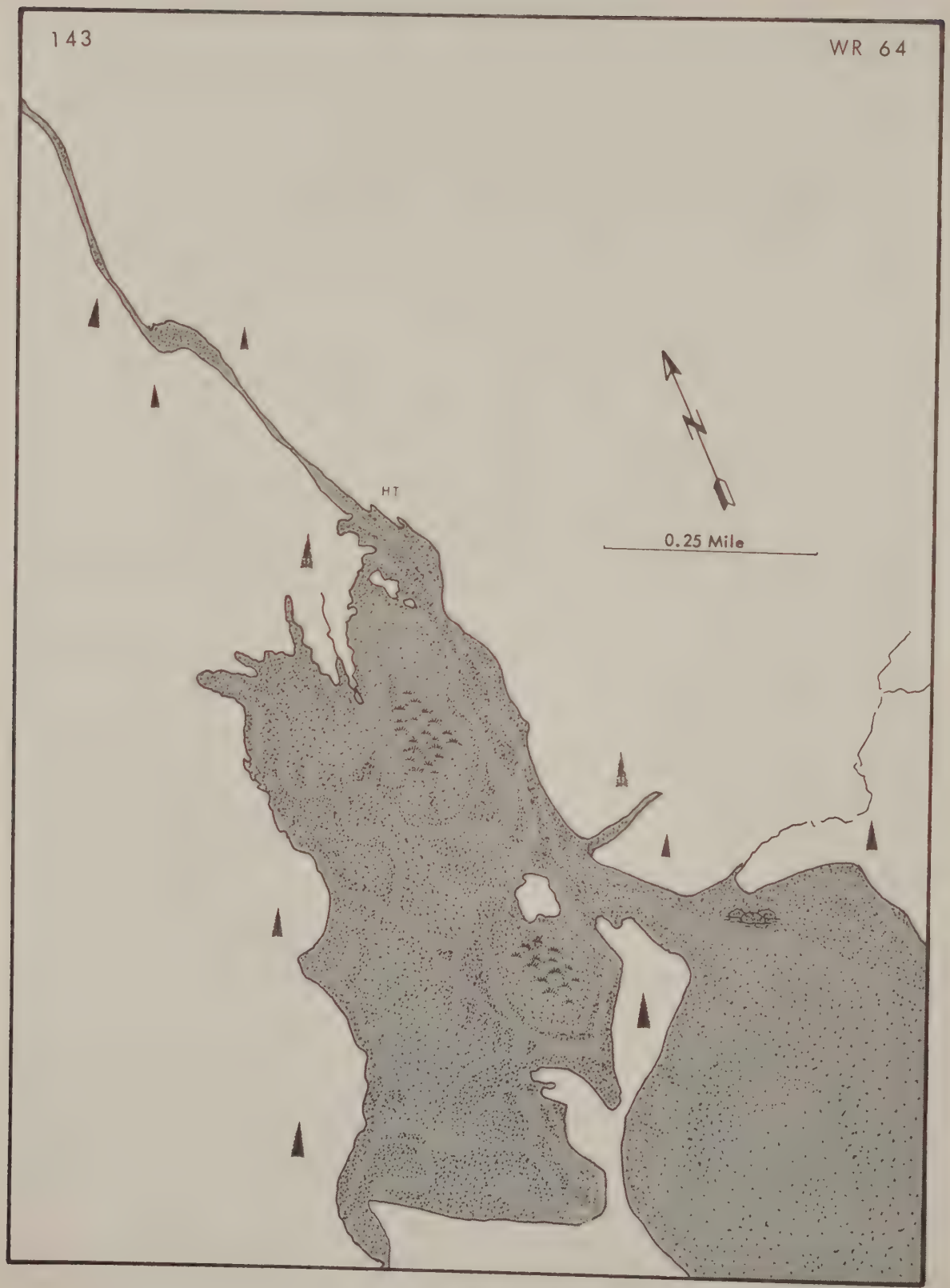
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 11	G 1.0	FRI	3,025	0	25	0		
Aug 22		FWS	1,422		59			
Sept 9	G 1.2	FRI	17,800	231	53	92		
Sept 25	G 1.0	FRI	9,800	2,100	0	1		Good escapement
1950								
Aug 11	G 1.0	FRI	372	0	82	0		
Sept 7	G 1.0	FRI	1,420	2	46	0		
Sept 30	G 1.0	FRI	17	9	0	0		
1951								
Aug 14	G 1.5	FRI	500	3	0	0		300 in intertidal zone
Aug 18-Sept 23	1.5	FWS	19,000		1,000		11 cohos, 2 reds	
Aug 24	G 1.0	FRI	24,000	3	200	6		
Sept 23	G 1.5	FRI	6,900		8	0	2 cohos	All spawning. Peak past
1952								
Aug 6	1.0	FWS						100 in stream, 400 at mouth
Aug 14	G 1.0	FRI	502	0	433	0		Extra low water
Aug 25	G 1.0	FRI	1,730	0	550	21		Chum spawning
Sept 8	G 0.2	FRI	610	9	20	6		Stream flooding
Sept 18	G 0.2	FRI	305	12	4	0		Run over. Stream high
1953								
July 30	G 0.2	FWS						Low water
Aug 15	G 0.5	FRI	0	0	0	0		Extremely high water
Aug 19	G 0.2	FWS						No fish observed
Sept 5	G 0.2	FRI	70	0	20	0		
Season		FWS	2,000					
1954								
Aug 15	A 0.5	FRI	1,000	0	200	0		All intertidal and fresh
Aug 16	G 1.0	FWS	267		179			
Aug 24	A 0.5	FRI	3,500	0	500	0		Water low. Chums upstream
Aug 24	G 1.5	FWS	702		135			
Aug 25	G 1.7	FWS	1,498		172		52 cohos	
Sept 9	A 0.5	FRI	1,400	0	0	0		High flood
Season		FWS	1,498					
1955								
Aug 19	A 0.5	FRI	>400	0	0	0		
Aug 26	A 0.5	FRI	>3,000	0	0	0		Visibility poor
Sept 6	A 0.5	FWS	10,000	0	0	0		Some chums and cohos
Sept 15	A 0.5	FRI	>2,500	0	0	0		All spawning
1956								
Aug 26	A 0.5	FRI	3,000	0	0	0		None observed at mouth
Sept 7	A 0.5	FRI	9,000	>200		0		Some chums present
Sept 10	A	FWS	300					
Sept 17	A 0.5	FRI	12,000	>200	0	0		None observed at mouth

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
Aug 25	A 0.5	FRI	500	0	100			Several hundred above marker
Aug 29	G 0.5	FWS	750	100	300	100		None observed off mouth
Aug 30	G 1.5	FWS	1,450		150			
Sept 2	A 0.5	FRI	300		600			
Sept 2	G 0.5	FRI	9					
Sept 13	G 0.3	FWS-FRI	5	0	0	0		Stream too low for fish
1958								
Aug 16	G 1.0	FWS	2,261		132			
Aug 23	G 0.5	FWS	1,277		36			
Aug 25	A 1.0	FWS	600		400			
Aug 4-27	G	FWS	2,500		250			Estimate
Aug 25	A mark	FWS	300					Some live chums
Aug 29		FRI	1,210	3	70	42		
Sept 2	G 2.5	FWS	2,650		65			
Sept 17	A mark	FWS	500					Few chum. Poor visibility
Sept 18	A 2.0	FWS	1,000			1,000		
1959								
	No records							
1960								
July 31	A 1.0	ADF						500 fish in intertidal zone
Aug 24	A 0.7	ADF	2,000	0	500	0		Visibility poor
Aug 30	A 0.3	ADF	1,000					Water very dark
1961								
Aug 9	A 1.5	ADF	2,000	0	0	0		1,500 fish in intertidal
Aug 20	A 1.5	ADF	4,500	0	0	0		Stream almost dry
1962								
July 26	A 1.0	ADF						150 in intertidal zone
July 30	A 1.0	ADF						1,500 at mouth, 500 in intertidal zone
Aug 13	A 2.0	ADF	6,000					300 salmon at mouth
Aug 20	A 1.0	ADF						Few fish in stream, water dark for count
Aug 29	A 2.0	ADF						25,000 mixed fish in stream
1963								
Aug 8	A 1.0	ADF	1,800					400 in intertidal zone
Aug 23	G 1.0	ADF	5,300					


143
WR 64
HT
N
0.25 Mile

ADF STAT. No.
143-10 WR 64
56°30.2' N. 133°25.8' W. Previous No. 89

WRANGELL, SUMNER STRAIT, TOTEM BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 55°F., 5/30/57; 52° F., 5/23/58.
VALLEY DESCRIPTION Wooded with open muskeg areas away from the banks. Mountainous to the W.
DRAINAGE 17.5 square miles (polar planimeter). Numerous scattered ponds are found within this drainage system. Drains a large muskeg area.
STREAM MOUTH IDENTIFICATION The mouth is constricted about halfway up the extensive intertidal zone. A large grass flat is found above the constriction.
ANCHORAGE Refer to WR 63.
TRAILS AND SURVEY ROUTES Survey at high tide to avoid walking across the tideflats. Above the constriction the stream flows along the E. side of the grass flat. Easily waded. Fair game trails.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 1.6 miles. AVERAGE WIDTH/DEPTH 90'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS School in the bay and in a hole at the constriction.
SPAWNING AREAS The upper half has a fine gravel bottom which looks suitable for spawning. Spawning has not been reported to take place here.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 6 miles. AVERAGE WIDTH/DEPTH 50'/6".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Small gravel and bedrock in certain areas.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None reported.
SCHOOLING AREAS Very few holes are found in this section of the stream. A few holes have been formed by log jams and offer excellent schooling facilities.
SPAWNING AREAS The lower 1.2 miles is made up of nearly continuous good spawning riffles.
GENERAL NOTES

ADF STAT. No.
WR 64
Previous No. 89

143-10 ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 11	G 1.2	FRI	4,515	0	502	0		
1950								
Aug 22		FWS	134		3,280		5 cohos	
1951								
Aug 18 - Sept 7	1.5	FWS	25,000		1,000		7 cohos	
1952								
Aug 6	A 1.0	FWS						4,000 fish, 400 at mouth
Aug 28	A 3.0	FWS						<3,000 fish
1953								
July 30	A 0.7	FWS	0	0	0	0		No fish observed
Aug 17	G 0.5	FWS	2,000	0	3,000	0	500 cohos	
Sept 18	A 0.7	FWS	0	0	0	0		300 salmon observed
Season	A 3.0	FWS	2,000					
1954								
July 28	G 1.5	FWS	45		218			
Aug 14	G 1.0	FWS			1,090			
Aug 15	A 0.7	FRI	5,000	0	0	0		
Aug 16	G 1.0	FWS	2		571			
Aug 26	G 1.5	FWS	2,897		965		2,800 cohos	
Sept 10	A 0.7	FRI	2,500	0	0	0		
1955								
Aug 19	A 0.7	FRI	>200	0	1,500	0		
Aug 26	A 0.7	FRI	>5,000	0	0	0		Visibility poor
Sept 5	A 0.7	FRI	6,000	0		0		Some chum present
Sept 16	A 0.7	FRI	6,000	0	0	0		Visibility poor
1956								
Aug 15	G 2.0	FWS	375					
Aug 17	G 3.0	FWS	600					
Aug 21	A 1.5	FWS						800-1,000 one quarter mile upstream
Aug 26	G 0.7	FRI	2,000	0	0	0		3,000 at mouth
Sept 7	G 4.0	FRI	13,000		0	0		Few dead pinks
Sept 10	A 5.0	FWS						5,000-10,000 pinks
Sept 17	G 0.5	FRI	8,000		0	0		Some dead pinks
1957								
Aug 25	A 0.7	FRI	200	0	500	0		Pink fresh
Aug 28	G 0.5	FRI	300	150	600	0		Jumps off mouth
Sept 2	G 0.7	FRI	1,100		500			Some dead
Sept 2	G 1.0	FRI	470		350		80 cohos	
Sept 4	A 1.5	FWS	3,000		1,000			
Sept 13	G 0.5	FRI	300	0	220	0		
1958								
July 29	A 2.0	FWS	250					
Aug 17	G 1.0	FWS	1,545		1,039	3		
Aug 23	G 1.0	FWS	1,225		1,085	6		
Aug 25	A mark	FWS	1,000					
Aug 28	G	FRI	1,240		220			

ADF STAT. No.
WR 64
Previous No. 89

143-10 ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1958								
Aug 29	G 2.0	FWS	4,000		800			
Sept 2	A 2.0	FWS	1,400		400			
Sept 8	G 0.5	FWS	600			2		
Sept 10	A 2.0	FWS	1,500					
Sept 15	G 2.0	FWS	1,000		80		20 cohos	
Sept 17	A mark	FWS	350					
1959								
Aug 1	A 2.0	FWS	50		100			
1960								
July 31	A 1.5	ADF						No fish observed
Aug 19	A 2.0	ADF						Fish present
Aug 30	A 1.0	ADF	3,000	0	300	0		Water too dark for estimate
1961								
Aug 9	A 2.0	ADF	2,500	0	0	0		2,500 fish in intertidal area
Aug 20	A 0.5	ADF	4,000	0	0	0		1,000 fish in intertidal area
Aug 25	A length	ADF	many					Stream too dark for estimate. Good distribution on all riffles
1962								
July 26	A 1.0	ADF						No fish observed
July 30	A 1.0	ADF						1,000 at mouth, 200 in intertidal area
Aug 7	A mouth	ADF						Too rough for survey
Aug 13	A 2.0	ADF	1,000					
Aug 20	A 1.0	ADF						Few pinks seen
Aug 29	A 3.0	ADF	31,000					2,000 salmon in intertidal area
1963								
Aug 7	A	ADF						6,000 in intertidal zone
Aug 9	A 1.0	ADF	2,000					200 at mouth; 5,000 in intertidal zone
Aug 23	G 1.0	ADF	4,000					200-300 in intertidal zone

143 FLICKER CREEK ADF STAT. No. WR 96
56° 20.7' N. 133° 31.8' W. Previous No. 130

WRANGELL, SUMNER STRAIT, 3.8 miles E. of Point Baker, S. fork.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 8.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Easy travel.
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM Extensive bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ADF STAT. No.
WR 96
Previous No. 130

143 FLICKER CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 10	G 1.0	FWS	0	0				No fish observed
1954								
Sept 18	G 1.0	FWS	1		0			
1955								
Sept 2	G 1.5	FWS						No fish observed
1956								
Aug 15	A 1.0	FWS						No fish observed
Sept 11	G 0.7	FWS						No fish observed
1957								
Aug 15	A 1.0	FWS						No fish observed
1958								
Aug 19	A 1.0	FWS						No fish observed
Sept 22	A length	FWS						No fish observed
1959								
Aug 21	A	FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							

143 ALDER CREEK ADF STAT. No. WR 97
56° 20.7' N. 133° 31.8' W. Previous No. 131

WRANGELL, SUMNER STRAIT, 4.8 miles E. of Point Baker, E. fork.

MAJOR SPECIES Pink. OTHER SPECIES
ESCAPEMENT TIMING Middle. Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. Observed temperatures: 56° F., 8/14/53; 46.5° F., 9/10/53.
VALLEY DESCRIPTION A wide, generally flat valley running in a SE. direction. Scattered muskeg areas are found throughout.
DRAINAGE 11 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters a tidal area common to it and WR 96. The tideflat narrows a short distance up the intertidal zone and remains this way for 0.6 mile. WR 97 enter the extreme SE. corner of the flat.
ANCHORAGE Point Baker offers good protection near its head, 3.5 miles W. of the creek mouth. A float has been anchored in this bay in past years and was used as a moorage. A temporary anchorage is found near the point on the left side of the mouth of the creek.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.3 mile. AVERAGE WIDTH/DEPTH 40'-80'/6"-8".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel, slate, and shale.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 20'/14".
GRADIENT AND VELOCITIES
BOTTOM Excellent spawning gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 97

143 ALDER CREEK Previous No. 131

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 10	G 0.7	FWS	1	0	1	0		
Sept 15	G 1.2	FWS	475	2	4	0		
1953								
Aug 14	G 1.2	FRI	0	0	0	0		Initial survey
Sept 10	G 0.3	FRI	0	0	0	0		None entering
Sept 15	1.2	FWS	500		25			
1954								
Season		FWS						No fish observed
1955								
Sept 2	G 1.7	FWS						Count not possible
Sept 8	G 1.0	FWS	600					Water low. Tide out
1956								
Aug 15	G 1.0	FWS						No fish observed
Sept 11	G 1.5	FWS	1,200					
1957								
Aug 15	A 3.0	FWS						No fish observed
1958								
Aug 19	A 1.0	FWS	25					
Sept 9	A 1.0	FWS	150					
Sept22	A length	FWS						No fish observed
1959								
Aug 21	A	FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							

143 BUSTER CREEK ADF STAT. No. WR 98
56° 19.7' N. 133° 26.2' W. Previous No. 132

WRANGELL, SUMNER STRAIT, 5 miles W. of entrance to Red Bay.

MAJOR SPECIES Pink. OTHER SPECIES Coho, steelhead.
ESCAPEMENT TIMING Middle. ESCAPEMENT MAGNITUDE Minor.
SPAWNING FACILITIES Good for size of stream.
STREAM TEMPERATURES
VALLEY DESCRIPTION Heavily wooded.
DRAINAGE 11.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Logging area at mouth.
ANCHORAGE Tie skiff to rocky point at stream mouth at low tide.
TRAILS AND SURVEY ROUTES Wide gravel bars make easy travel.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Rubble.
LOW TIDE LOCATION
HIGH TIDE LOCATION Edge of woods.
SCHOOLING AREAS Large pool at edge of woods.
SPAWNING AREAS Limited.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 10'/14".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Several deep pools.
SPAWNING AREAS
GENERAL NOTES

BUSTER CREEK

143 ESCAPEMENT RECORD

ADF STAT. No. WR 98
Previous No. 132

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 10	G 1.0	FWS	0	0	0	0		
Sept 15	G 0.7	FWS	945	3	119	4		
1954								
Sept 18	G 0.2	FWS	60					
1955								
Sept 8	G 1.0	FWS	150					
1956								
Aug 15	A 1.0	FWS						No fish observed
Sept 4	A 1.0	FWS			2			
Sept 11	G 0.7	FWS	1,000		200			
Sept 11	A 3.0	FWS	300					
1957								
Aug 15	A 2.0	FWS						No fish observed
1958								
Aug 19	A 1.0	FWS	25					150 pinks at mouth
Sept 9	A 1.0	FWS	150					100 pinks at mouth
Sept 22	A length	FWS						No live fish, 600 dead
1959								
	No record							
1960								
	No surveys							
1961								
	No surveys							

143
56° 19.6' N. 133° 24.7' W.

ADF STAT. No.
WR 99
Previous No. 133

WRANGELL, SUMNER STRAIT, 4 miles W. of entrance to Red Bay.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 2.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor in cove.
TRAILS AND SURVEY ROUTES Travel easy.
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH 8'/4".

ADF STAT. No.
WR 99

143 ESCAPEMENT RECORD Previous No. 133

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 10	G 0.3	FWS	0	0	0	0		
1954								
Aug 19	A 0.2	FWS						No fish observed
Sept 18	G length	FWS						No fish observed
1955								
Sept 8	G 0.7	FWS	1					
1956								
Sept 4	A 1.0	FWS			2			
Sept 11	G 0.7	FWS	1,000		200			
Sept 11	A 3.0	FWS	300					
1957								
Aug 15	A 2.0	FWS						No fish observed
1958								
Sept 10	A 0.2	FWS	25					
1959								
Aug 21	A	FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							

ADF STAT. No.
143 WR 100
56°16' N. 133°21.3' W. Previous No. 134

WRANGELL, SUMNER STRAIT, RED BAY, SW. corner.

MAJOR SPECIES Pink. OTHER SPECIES Red, chum, and coho.
ESCAPEMENT TIMING Late. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES
VALLEY DESCRIPTION Heavily timbered.
DRAINAGE 1.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters on common grass flats with WR 101.
ANCHORAGE Good anchorage just inside bay.
TRAILS AND SURVEY ROUTES Stream easily waded.
AERIAL SURVEY NOTES A small stream, brushy, and difficult to survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

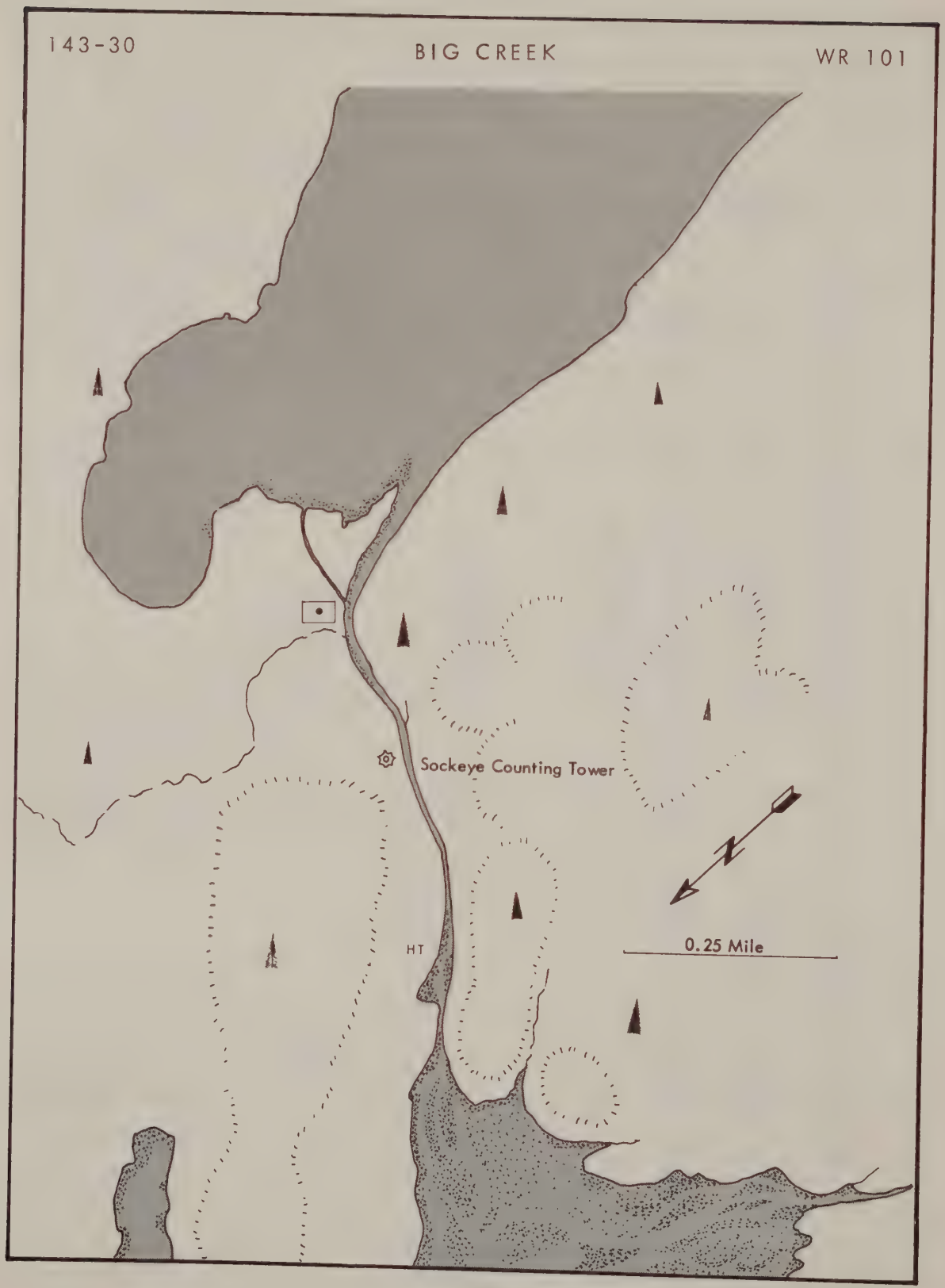
LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 30'/18".
GRADIENT AND VELOCITIES Moderate to swift.
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Almost continuous riffles.
GENERAL NOTES

ESCAPEMENT RECORD

ADF STAT. No.
WR 100
Previous No. 134

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 3		FWS	550		3,000		2,000 reds	
1951								
Sept 14	G 1.0	FWS	223	1	940	276	5 cohos	
Sept 19	0.7	FWS						500 pinks and chums
1953								
Aug 1	A	FWS						No fish, dark water
Sept 8	A	FWS						No fish, dark water
1954								
Aug 12	A length	FWS						No fish observed
Aug 29	G 0.2	FWS						1,000 pinks off mouth
1955								
July 13	G mouth	FWS						No fish observed
1956								
Aug 5	G length	FWS	150		150			
Aug 14	G length	FWS	500		400			
Aug 22	G length	FWS	1,000		1,000			
Aug 24	G length	FWS	1,300		1,300			
Aug 27	G length	FWS	1,300		1,300		400 cohos	
Aug 28	G length	FWS	1,200		2,800		400 cohos	
Sept 4	G 1.0	FWS	2,000		4,000		2,000 cohos	
Sept 8	G 1.0	FWS	2,400		4,400		2,500 cohos	
Sept 11	G 0.5	FWS	30		500			
Sept 11	A 1.5	FWS	1,000					
Sept 14	G 1.0	FWS	2,000		4,000		2,000 cohos	
1957								
Aug 5	G 1.0	FWS	400		200			
Aug 24	G	FWS	25		25			
Aug 31	G 1.0	FWS	100		100			
Sept 5	G 1.0	FWS	100		100			
Sept 6	G 1.0	FWS	400		200			
1958								
July 28	G 1.0	FWS	100		100			
Aug 1	G 1.0	FWS	100		100			
Aug 11-24	G 1.0	FWS	100		200			
Sept 1	G 1.0	FWS	57		7			
Sept 9	A 1.0	FWS	150		50			
Sept 20	G flats	FWS						No fish observed
1959								
Aug 21	A	FWS						No fish observed
1960								
July 12	G 1.0	ADF					20 reds	700 reds at mouth
Aug 2	A mouth	ADF					29 reds	
Aug 24	A mouth	ADF						Chum jumping at mouth
Sept 2	G 0.5	ADF	500	0	200	0		Fish jumping at mouth
1961								
Aug 1	A 0.3	ADF						No fish observed


Sockeye Counting Tower
HT
0.25 Mile

143-30 BIG CREEK ADF STAT. No. WR 101
56° 15. 8' N. 133° 20. 4' W. Previous No. 135

WRANGELL, SUMNER STRAIT, RED BAY, SW. corner.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug. -Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 58° F., 9/14/50; 49° F., 10/1/50; 58° F., 9/12/51; 55° F., 9/20/52; 53° F., 9/30/52; 55° F., 9/14/53; 52° F., 9/24/53.
VALLEY DESCRIPTION A short valley between Red Lake and Red Bay.
DRAINAGE 15 square miles (polar planimeter.) Drains Red Lake, which is 2. 3 miles long and 0. 4 mile wide.
STREAM MOUTH IDENTIFICATION Lies in the SE. corner of the tidal flat in a small bight. Breaks into many branches in the lower intertidal area.
ANCHORAGE Temporary anchorage is available in the bight W. of Dead Islet. Red Bay is used extensively during fishing season and offers good protection in all weather. For directions on entering, refer to the U. S. Coast Pilot.
TRAILS AND SURVEY ROUTES Easily traveled. Good trails follow either bank. The tributary has brushy margins and numerous downfalls.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0. 5 mile. AVERAGE WIDTH/DEPTH 35'-50'/3"-10".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Rock, gravel, and algae.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS This zone offers poor spawning facilities except in the upper 500' where there is a fair spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0. 6 mile to lake. AVERAGE WIDTH/DEPTH 30'/6"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Mostly gravel with some silt and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None
TRIBUTARIES A good-sized tributary enters from the W. 0. 5 mile above the high tidemark. This tributary offers fair spawning facilities.
SCHOOLING AREAS Numerous pools are found from the intertidal zone to the lake.
SPAWNING AREAS The entire stream contains good spawning areas. Red salmon spawn in the lake near the outlet; and in 2 small inlet streams.
GENERAL NOTES

ADF STAT. No.
WR 101
Previous No. 135

143-30 BIG CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 30	G 0.5	FRI	137	0	7	0		3,000 off mouth
Sept 26	G 0.5	FRI	2,850	27	9	0	2 reds	
1950								
Sept 14	G 1.0	FRI	445	1	125	0		
Sept 27	G 1.0	FRI	264	1	5	2	116 cohos, 2 reds	
Oct 1	G 1.0	FRI	131	11	0	1	108 cohos	
1951								
Sept 12	G 1.0	FRI	1,200	0	50	0	15 cohos, 2 reds	
Sept 24	G 1.0	FRI	2,500	50	220	65	352 cohos, 2 reds	40 per cent pinks spawning
Oct 3	G 0.6	FRI	950	148	20	23	420 cohos	
1952								
Sept 20	G 0.5	FRI	270	4	1	8	35 cohos	1 dead coho
Sept 30	G 0.5	FRI	15	2	1	4		Pink run over. Stream high
1953								
Sept 1	G 0.2	FWS			.100	0	50 reds	Few live pinks. Jumpers in bay
Sept 14	G 0.5	FRI	20	0	10	1	162 cohos, 8 reds	Stream high
Sept 24	G 0.5	FRI	6	1	2	2	25 cohos	Stream flooding
1954								
Sept 8	A 0.6	FRI	400	0	0	0		Few at mouth
Sept 17	A 0.6	FRI	0	0	0	0		No intertidal fish seen
Sept 18	A 0.5	FRI	100	0	0	0		Salmon near mouth of stream
Sept 21	A 0.6	FRI	100	0	0	0		
1955								
July 9	G 0.5	FWS	0	0	0	0	50 reds	
July 12	G 0.5	FWS	0	0	0	0	100 reds	
July 21	G 0.5	FWS	0	0	0	0	20 reds	
July 26	G 0.5	FWS	0	0	0	0		First chums noted in stream
Aug 2	G 0.5	FWS	0	0		0		Some chums
Aug 30	G 0.5	FWS	0	0	200	0		
Sept 6	G 0.5	FWS	0	0	350	0		250 salmon at mouth of stream
Sept 8	G 0.5	FWS	100	0	0	0		400 salmon in stream
Sept 16	A 0.5	FRI	>400	0	0	0		
Sept 23	G 0.5	FRI	>300	0	0	0		None observed at mouth
1956								
Aug 2	G lake	FWS	50	0	50	0		
Aug 5-9	G lake	FWS	300	0	300	0		
Aug 12-14	G lake	FWS	200		50	0	1,300 reds	
Aug 15	G lake	FWS	100				200 reds	
Aug 20	G lake	FWS	95	0	305	0		
Aug 26	A	FRI	>100	0	0	0		None observed at mouth
Sept 4	G lake	FWS	100		200			
Sept 8	G lake	FWS	200		200			
Sept 11	G lake	FWS	1,800		10			
Sept 14	G lake	FWS	1,000		500		500 cohos	
Sept 23	A	FRI	>200	0	0	0		None observed at mouth
Sept 28	A	FRI	>300		0	0		Many dead pinks. None in bay

143-30 BIG CREEK - Continued

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1957								
July 20	G to lake	FWS					15,000 reds	
July 24	G to lake	FWS	300		100		400 reds	
July 25-28	G to lake	FWS	300		100		1,600 reds	
July 26	G lakeshore	FWS					500 reds	
Aug 1-2	G to lake	FWS	300		100			
Aug 3-14	G to lake	FWS	300		100			2,000-3,000 in bay
Aug 15	G to lake	FWS						4,000 in bay
Aug 19	G to lake	FWS	400		200			
Aug 20-31	G to lake	FWS						4,000 in bay
Aug 23	G lakeshore	FWS					2,000 reds	
Sept 6	G to lake	FWS	600		200			3,000-4,000 in bay
Sept 22	A mkr	FRI	300					Some chums. None in bay
1958								
July 1	G 0.7	FWS					170 reds	
July 4	G to lake	FWS					200 reds	
July 6	G to lake	FWS					400-500 reds	3,000 in bay
July 22	G lake	FWS					10,000 reds	
July 25	G to lake	FWS					700 reds	
July 28	G to lake	FWS	200		300			
Aug 1	G to lake	FWS	100		100			17,000 reds in lake
Aug 11	G to lake	FWS	100		100			
Aug 27	A	FWS						None observed off mouth
Sept 2	G 1.2	FWS	439		10		8 reds	
Sept 9	A lake	FWS	600					
Sept 9	A	FWS						None observed off mouth
Sept 19	A	FWS						Fish present upstream
Sept 22	A lake	FWS	300					
1959								
July 20-Aug 5	G 1.0	FWS						No fish observed
Aug 3	A 2.0	FWS						No fish observed
Sept 4	G 0.2	FWS	250		50			
Sept 4	G	ADF	1,100		14		19 reds	
1960								
Aug 30	A length	ADF	300	0				3,500 reds in lake
Sept 2	G 0.5	ADF	500		200			
1961								
July 6	G 0.6	ADF						No fish observed
								Many reds jumping
July 28	A 0.6	ADF						1,500 reds off mouth
Aug 1	A mouth	ADF						No salmon observed
Aug 12	G mouth	ADF						3,000 reds off mouth
Sept 9	A 0.6	ADF					1,200 reds	
1963								
?		ADF						No fish observed

143-30 PINE CREEK ADF STAT. No. WR 102
56°19.4' N. 133°16.8' W. Previous No. 136

WRANGELL, SUMNER STRAIT, RED BAY, 0.7 mile S. of Pine Pt.

MAJOR SPECIES Chum. OTHER SPECIES Coho, steelhead.
ESCAPEMENT TIMING Middle. Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Limited.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 7.8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Small lagoon area.
ANCHORAGE In Red Bay.
TRAILS AND SURVEY ROUTES Easily waded.
AERIAL SURVEY NOTES Heavy overstory prevents surveys.

INTERTIDAL ZONE

LENGTH 0.1 AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Rocky.
LOW TIDE LOCATION Flats.
HIGH TIDE LOCATION Edge of woods, small rapids.
SCHOOLING AREAS
SPAWNING AREAS Very limited.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/12".
GRADIENT AND VELOCITIES Swift.
BOTTOM Bedrock, gravel, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Numerous small pools.
SPAWNING AREAS Gravel pockets between rapids and small side channels.
GENERAL NOTES Abundance of small steelhead fingerlings in every pool in June.

ADF STAT. No.
WR 102
Previous No. 136

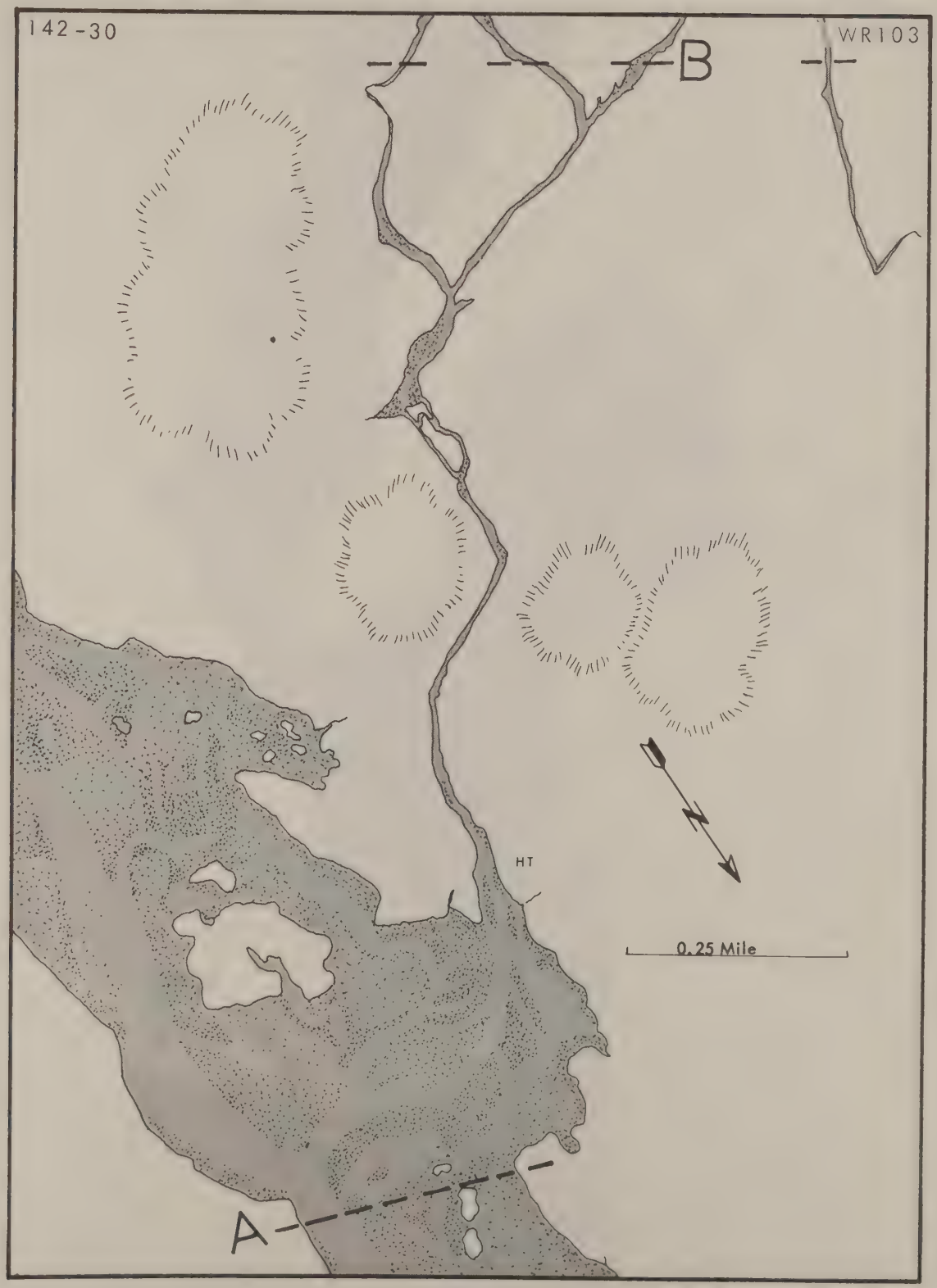
143-30 PINE CREEK

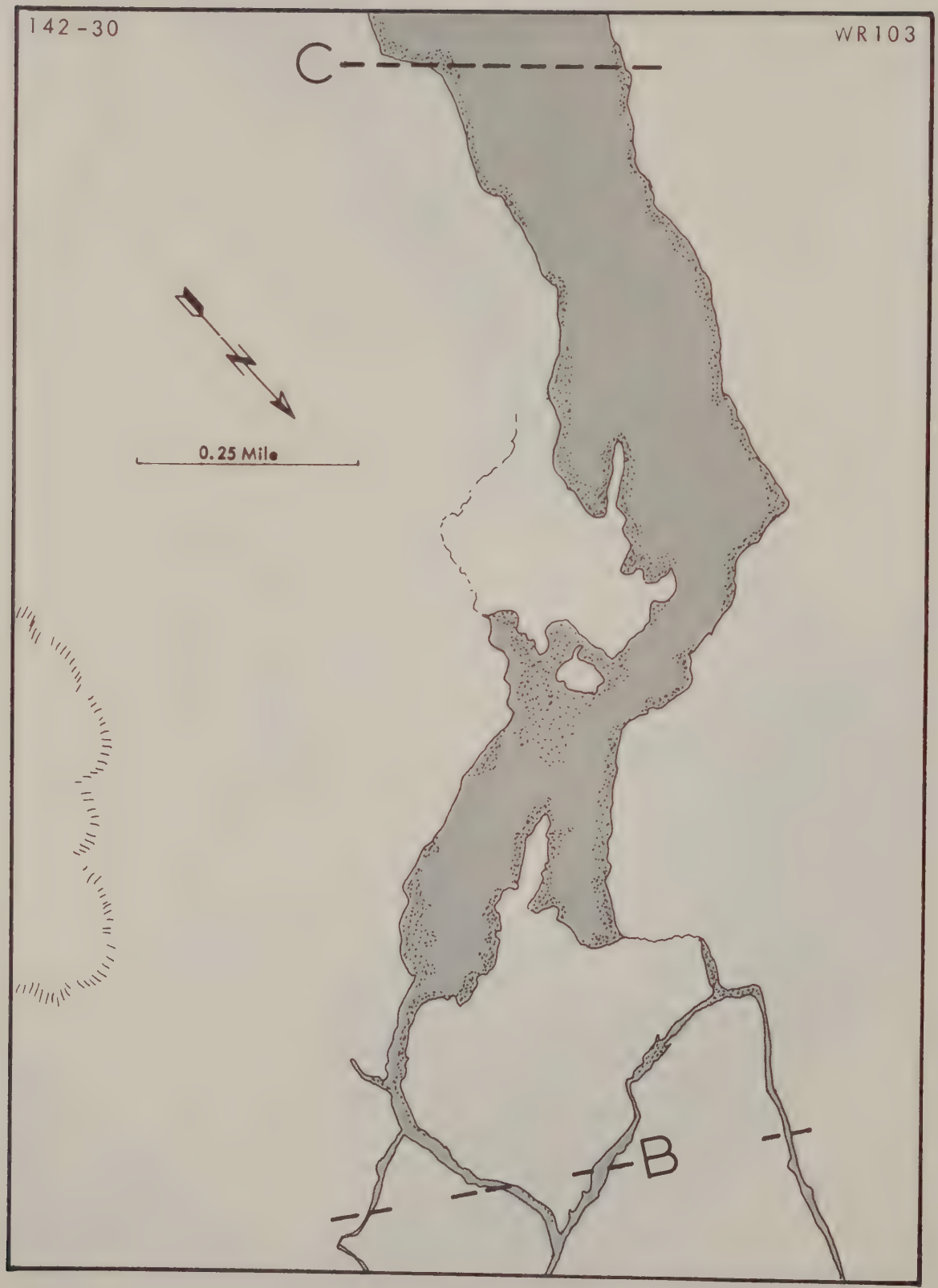
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIFS Live	REMARKS
1951								
Sept 13	0.3	FWS	10		75			
1953								
Sept 6	G 0.2	FWS	0	0	2	0		
Sept 17	G 0.2	FWS	0	0	0	0		Chum fair, pink poor
1954								
Aug 10	A	FWS						None observed. Water low
Aug 19	A length	FWS	50					
1955								
Sept 1	G 0.5	FWS						No fish observed
1956								
Sept 11	G 1.5	FWS	25		65			
1957								
Aug 14	G 0.2	FWS						No fish observed
Aug 15	A 1.0	FWS						No fish observed
1958								
Aug 19	A 0.5	FWS						No fish observed
Sept 10	A 1.0	FWS						No fish observed
1959								
Aug 21	A	FWS						No fish observed
1960								
	No surveys							
1961								
	No surveys							

142-30
WR 103
A
N
0.25 Mile


142-30
WR103
B
A
HT
N
0.25 Mile


142-30
WR103
C
N
0.25 Mile
B

142-30
WR 103
103 B
0.25 Mile
103 A
103 C
C

142-30
56°17' N. 133°09.7' W.

ADF STAT. No.
WR 103
Previous No. 137

WRANGELL, CLARENCE STRAIT, SALMON BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept.(est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Runs through a nearly flat area with numerous scattered muskeg areas. Several stream-cut valleys enter the main valley.
DRAINAGE 22 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Flows out of the northernmost entrance to Salmon Bay. An island lies one-eighth mile off the mouth in the tidal flat. This island dries on three sides at low water.
ANCHORAGE The bay is used extensively as a harbor during certain seasons.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Poor due to very dark muskeg colored water.

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH 60'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud, rubble, gravel.
LOW TIDE LOCATION Entrance of bay.
HIGH TIDE LOCATION
SCHOOLING AREAS In bay off mouth and large pools in middle of intertidal area.
SPAWNING AREAS Limited to the upper stretch.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.3 miles to lake. AVERAGE WIDTH/DEPTH 40'-50'/10".
GRADIENT AND VELOCITIES
BOTTOM Gravel and sand grading into coarse gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls 4' in height one-fourth mile above the high tidemark are accessible by a natural bypass which goes around one side.
TRIBUTARIES A tributary enters 1 mile upstream--has good spawning gravel and is used by pinks and cohos.
SCHOOLING AREAS Many large pools.
SPAWNING AREAS Riffles throughout.
GENERAL NOTES Gradient becomes quite slow about 0.6 mile upstream. Stream is quite deep in this area. Three inlet streams to Salmon Bay Lake, Nos. 103A, 103B, and 103C are major red and coho producers.

ADF STAT. No.
WR 103
Previous No. 137

142-30

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
June 19	G 0.2	FWS						Few red, bay and stream
July 19	A	FWS						2,000 reds in pothole
Aug 4	G 0.2	FWS						4,000 reds in pothole
Aug 20	A	FWS						2,000 reds in pothole
Sept 1	G 0.2	FWS					500 cohos	
1954								
July 29		FWS					60 reds	
Aug 4		FWS					3,500 reds	
Aug 23	0.2	FWS	50				250 reds	
Aug 24	0.2	FWS	80				300 reds	
Aug 28	0.2	FWS					1 cohos	
1955								
June 15	G 0.2	FWS						Few reds in Salmon Bay
June 29	G 0.2	FWS						First reds noted
July 16	G 0.2	FWS						1,000 reds passed by
July 27	G 0.2	FWS						Red run improving
Aug 17	G 0.2	FWS	350				1 reds	
Aug 21	G 0.2	FWS		400				Some pinks. Few reds
Aug 26	G 0.2	FWS					Few cohos	
Sept 8	G 0.2	FWS	2,000				400 cohos	Some chums
Sept 11	G 0.2	FWS					200 cohos	Some pinks and chums
Sept 13	tideflats	FWS					300 cohos	
Sept 26	G 0.2	FWS	2,000				250 cohos	Some chums
1956								
July 4	G	FWS					3,000-4,000 reds	Tidal zone
July 8-11	G	FWS					2,000 reds	Entered. Tidal zone
Aug 15	G 0.5	FWS	100		150			
Aug 18	G 1.5	FWS	150		150		600 cohos	
Aug 26	G 1.5	FWS	2,000		1,000			
Aug 29	G 1.5	FWS	2,000		1,000		500 cohos	
Sept 1	G 1.5	FWS	3,000		1,000		500 cohos	
Sept 3	G 1.5	FWS	6,000		400		900 cohos	
Sept 7	A 1.0	FWS	5,000		500		3,500 cohos	
Sept 10	A 1.0	FWS	5,000		500		3,500 cohos	
Sept 14	G	FWS	6,500		1,200		12,000 reds 3,000-4,000 cohos	
1957								
July 14	G 0.2	FWS					250 reds	
July 19	G 0.2	FWS					500 reds	
July 31	G 0.2	FWS			400			
Aug 5	G 0.2	FWS			400		550 reds	
Aug 13	G 0.2	FWS			200		250 reds	
Aug 17	G 0.2	FWS	600		200		50 reds	
Aug 24	G 0.2	FWS	500		100			
Aug 27	G 1.0	FWS	200		10		5 reds	
Aug 28	G lake	FWS					1,000 reds	
Season		FWS					5,000 reds	
Sept 10	G 0.2	FWS	75	1				

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1958								
June 9	G 1.0	FWS						No fish observed
July 7	G 1.0	FWS					200 reds	In big hole
July 20	G 1.5	FWS	150				400 reds	Red in slough
July 23	G 1.5	FWS			100		700 reds	
July 27	G 1.5	FWS	100		30		500 reds	
July 31	G 1.5	FWS					250 reds	
Aug 2	G 1.0	FWS	30		2		40 reds	
Aug 10	G 1.0	FWS	150					
Aug 17	G 1.0	FWS	200				2 reds	
Aug 29	A lake	FWS	800				4,000 reds	
Sept 9	A lake	FWS	1,400					
Sept 11	G 2.0	FWS	850		20			
Sept 23	G 0.8	FRI	500		350			
Season		FWS					5,500 reds	
1959								
June 8-15	G flats	FWS						No fish observed
July 1-3	G flats	FWS					100 reds	
July 4-5	G flats	FWS					200 reds	
July 6-7	G flats	FWS					500 reds	
July 8	G flats	FWS					300 reds	
July 9	G flats	FWS					100 reds	
July12	G flats	FWS					200 reds	
July14	G flats	FWS					300 reds	
July15	G flats	FWS					500 reds	
July16-20	G flats	FWS					400 reds	
July20-25	G flats	FWS					2,000 reds	
July25-31	G flats	FWS					3,000 reds	
July28	G flats	FWS					500 reds	
Aug 1-9	G flats	FWS					1,500 reds	
Aug 11	G flats	FWS					35 cohos	
Sept 6	G flats	FWS	400					
1960								
Aug 30	A length	ADF					400 reds	
1961								
July 5	G	ADF						No fish observed
July 11	A	ADF						No fish observed
July 28	A length	ADF						No fish observed
Aug 1	A mouth	ADF						Red jumping at mouth
1962								
July 26	A	ADF						7,000 at mouth
Aug 7	A	ADF						5,000 at mouth
Aug 31	G 0.5	ADF					10,450 reds	
1963								
July 29	A	ADF						No fish observed
Aug 27	A	ADF						Large school in intertidal zone
Sept 10	G 0.2	ADF					580 reds	Good gravel all the way; good distribution
Sept 10	G 2.0 S. end to falls	ADF					3,900 reds	Few reds above falls

115-10
SQUAW CREEK
WR 104
Log
Falls
HT
0.25 Mile

115-10
56°07.9' N. 133°05.2' W.

SQUAW CREEK

ADF STAT. No.
WR 104
Previous No. 140

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, WHALE PASSAGE, on inlet N. of W. side of Thorne I.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 3.3 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE The bay which extends to the NW. near the middle of the passage affords good anchorage. An excellent anchorage is also found N. of this bay along the E. side of the passage between the irregular shaped island and shore.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 20'-25'/6"-8".
GRADIENT AND VELOCITIES
BOTTOM Coarse gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS The stream enters a canyon 1 mile upstream and a 4' falls is found near the lower end of the canyon, possibly a barrier to salmon.
TRIBUTARIES A small stream enters three-fourths of a mile upstream.
SCHOOLING AREAS A few deep holes are available for schooling salmon.
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 104
Previous No. 140

115-10 SQUAW CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 21	1.0	FWS	6,670	20	625	246		
1953								
Aug 11	A	FWS						No salmon observed
Sept 5	G 0.2	FWS	300	0	0	0		Some live chums. 500 pinks in bay
1954								
Aug 10	A	FWS						No salmon observed
Sept 20	0.2	FWS	12,000					
1955								
Aug 14	G 0.2	FWS						No salmon observed
Aug 21	A	FWS						None at mouth
Aug 23	G 0.2	FWS						Pinks and chums at mouth
Sept 16	G 1.5	FWS	10,000	0	500	0		
Sept 29	G 1.5	FWS	20,000					
1956								
Aug 15	A 0.7	FWS						No salmon observed
Aug 28	G 2.0	FWS	2,335		555			
Sept 1	G 1.0	FWS	5,150		1,050			
Sept 11	G 1.0	FWS	35,000		7,000			
Sept 12	A 1.0	FWS	3,000	100				
Sept 18	G 1.0	FWS	28,000		2,000		20 cohos	8,000 pinks and chums schooled at mouth
1957								
Aug 23	G mouth	FWS					50 cohos	
Aug 29	G 0.7	FWS	1,000		100		50 cohos	
Sept 11	G 1.2	FWS	422	20	1,050	40		
1958								
Aug 8	G 0.2	FWS						100 pinks, 200 chums at mouth
Aug 11	G 0.5	FWS						25 pinks at mouth
Aug 15-23	G 0.5	FWS						30 pinks at mouth
Aug 26	A length	FWS						200 salmon at mouth
Aug 27	G 0.2	FWS						100 pinks at mouth
Aug 30	G 0.2	FWS						150 pinks at mouth
Sept 1	G 0.2	FWS	25					150 pinks at mouth
Sept 1	G 0.5	FWS	16					
Sept 19	A length	FWS	750					
Sept 26	A length	FWS	10	100				
1959								
Aug 24	G mouth	FWS	1,000		1,000			
Aug 27	G mouth	FWS	400		600			
Aug 28	G mouth	FWS	400		600			
Aug 29	G mouth	FWS	1,000		500			
Sept 6	G 0.5	FWS	375		125			600 pinks off mouth

ADF STAT. No.
WR 104

115-10 SQUAW CREEK - Continued Previous No. 140

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1960								
	No surveys							
1961								
Aug 1	A mouth	ADF						Mixed jumpers off mouth
Aug 26	A mouth	ADF						Mixed jumpers off mouth
1962								
July 26	A 0.5	ADF						No fish observed
Aug 16	A 1.0	ADF						No fish observed Good runs reported but foot survey not made
1963								
July 29	A length	ADF						No fish observed; difficult to survey
Aug 27	A bay	ADF						Good showing at mouth

115-10
WR 105
Old Weir Site
HT
0.25 Mile

ADF STAT. No.
WR 105
Previous No. 141

115-10
56°07.6' N. 133°08.8' W.

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, WHALE PASSAGE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Normal range. Observed temperatures: 50° F., 9/27/50; 48.5° F., 10/1/50; 61.5° F., 8/28/51; 55° F., 9/13/51; 53° F., 9/24/51; 48° F., 10/4/51; 52° F., 9/20/52; 49° F., 10/2/52; 50° F., 10/8/52; 52° F., 9/14/53; 50° F., 9/25/53; 47.5° F., 10/3/53
VALLEY DESCRIPTION A heavily wooded valley with low-lying hills.
DRAINAGE 22 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the extreme head of the flats and flows along the E. side of the small wooded islands. The flats extend nearly to the S. edge of the islands.
ANCHORAGE Refer to WR 104.
TRAILS AND SURVEY ROUTES Road on right side to second lake. Survey trail on left side from first lake down to tidewater.
AERIAL SURVEY NOTES Light and water color often limit surveys.

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 50'/6"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS School in the bay off the mouth.
SPAWNING AREAS The upper one-fourth mile is an excellent spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.5 miles. AVERAGE WIDTH/DEPTH 40'-60'/4"-6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large rock and bedrock with gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Three barriers exist on this stream. The first two are only partial blocks while the third, just below the first lake outlet, appears to be a total block to pink and chum. Coho do go over.
TRIBUTARIES None.
SCHOOLING AREAS In the first mile only a few holes are present. The hole below the old weir site is used most extensively.
SPAWNING AREAS A good spawning riffle is found in the first 150 yards above the high tidemark; from this point to a 5-foot cataract and for a short distance above, there is poor spawning area. Above this there are excellent spawning facilities.
GENERAL NOTES This stream drains two lakes, the first about 2.5 miles upstream is approximately 200 yards across by 500 yards long. The second lake is about 0.5 mile above the first and is about 1.8 miles long by 0.5 mile wide. Coho fry have been found in the second lake. The stream goes underground for about 150 yards at the outlet of the first lake. Coho go through to the second lake, but pink and chum appear to be stopped at falls 100 yards below the underground outlet.

ADF STAT. No.
WR 105
Previous No. 141

115-10

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Live	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 29	G 1.0	FRI	700					
Sept 19	G 1.0	FRI	31,800	0	600			
1950								
Aug 28		FWS	700		230			
Sept 27	G 1.0	FRI	4,586	142	306	169	20 cohos	
Oct 1	G 1.0	FRI	4,695	649	234	102	48 cohos, 1 red	
1951								
Aug 29	G 0.1	FRI	24	0	0	0		Thousands at mouth
Sept 13	G 0.6	FRI	5,000	55	160	5	1 coho	Thousands off mouth
Sept 21	1.7	FWS	40,000		1,200			
Sept 24	G 1.0	FRI	18,800	185	1,170	365	10 cohos	Fish spawning
Oct 4	G 1.0	FRI	6,800	1,180	510	320	200 cohos	75% pinks spawning
1952								
Sept 20	G 0.7	FRI	3,630	1	279	0		Many fresh
Oct 2	G 0.7	FRI	22	37	0	1		Stream flooding
Oct 10	G 0.7	FRI	1,410	1,396	8	32	40 cohos	
1953								
Aug 3	G 0.7	FWS	500	0	500	0		4,000-5,000 in mouth
Aug 10	G 0.7	FWS	400	0	400	0		Fish observed at mouth
Aug 11	G 0.7	FWS						Fish at mouth
Sept 5	A	FRI	2,000		200			Some live chums, dead pinks
Sept 14	G 1.0	FRI	1,100	0	125	0		Stream flooding
Sept 25	G 1.0	FRI	1,350	40	250	10	1 coho	
Sept 27	A	FRI	2,000		200			Some live chums, dead pinks
Oct 3	G 1.0	FRI	642	150	120	35		
1954								
Aug 10	A	FWS						No fish observed
Season		FWS	50,000					
1955								
Aug 21	A	FWS						None observed off mouth
Aug 23	G 1.5	FWS						Pinks and chums off mouth
Aug 26	A mark	FRI	5,000					>30,000 in bay
Sept 5	A mark	FRI	>1,000					75,000-100,000 in bay
Sept 15	G 2.0	FWS	12,000					
Sept 16	A mark	FRI	70,000					
Sept 16	G 1.5	FWS	10,000	150	150	20		
Sept 23	A mark	FRI	80,000					
Sept 23	G 2.0	FWS	40,000		10,000			
Sept 28	A mark	FRI	65,000					
Sept 29	G 1.5	FWS	20,000					Some chums
1956								
Aug 12	G	FWS						No fish observed
Aug 19	G 2d mark	FWS	225					
Aug 26	A mark	FRI	3,000					
Aug 27	A mark	FWS	3,000					
Aug 29	G 0.5	FWS	3,000					
Sept 2	G 1.5	FWS	15,500		2,000			
Sept 9	A to mark	FRI	25,000					5,000 at mouth

ADF STAT. No.
WR 105

115-10 ESCAPEMENT RECORD - Continued Previous No. 141

SURVEYED Date	Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1956								
Sept 11	to log jam	FWS	5,500					
Sept 12	A to lake	FWS	42,000					
Sept 18	G 1.2	FWS	35,000		2,500			
Sept 28	A mark	FRI	42,000					Many dead
1957								
Aug 16	G 0.5	FWS	100					
Aug 21	A 1.0	FWS	700					1,500 in intertidal
Aug 27	G 1.0	FWS	1,500				10 cohos	
Aug 31	G 0.5	FWS	500					
Sept 9	A mark	FRI	300					>5,000 pinks above marker
Sept 18	G 0.5	FWS	100		10			
Sept 22	A mark	FRI	5,000					10,000 salmon in stream
Sept 27	A mark	FRI	2,000			300		
1958								
Aug 25	A mark	FWS	350					
Aug 27	A length	FWS	4,000					
Aug 31	G 1.5	FRI	3,880		72			
Aug 31	G 2.5	FWS	3,030		25			
Sept 1	G 0.2	FWS	3,500					3,500 pinks at mouth
Sept 7	A length	FWS	>20,000					
Sept 17	A length	FWS	20,000					
Sept 19	A 4.0	FWS	35,000					
Sept 23	G 1.0	FWS	1,500		50		750 cohos	
Sept 26	A length	FWS	37,500		1,000			
1959								
Aug 16	G 0.5	FWS	1,500					
Aug 24	G flats	FWS	5,000		10,000			
Aug 25	G	FWS	15,000		20,000			
Aug 26	G	FWS	5,000		10,000			
Aug 27	G	FWS	3,000		7,000			
Aug 28	G	FWS	2,000		6,000			
Aug 29	G	FWS	20,000		500			Estimated 100,000 pinks have gone up
Sept 5	G 2.0	FWS	26,000		50			Plus 20,000 pinks in tidal zone; 600 pinks off mouth
1960								
Aug 30	A 2.5	ADF	400					500 pinks in intertidal
Sept 2	G 1.5	ADF	6,000		3,500			5,500 at mouth
1961								
Aug 1	A 2.5	ADF						Jumpers off mouth
Aug 26	A 2.5	ADF						Pink present, water dark
Aug 30	G 2.5	ADF	106,000	few	few	few		3,000 below weir
Sept 7	A 2.5	ADF	many					15,000-20,000 below weir

ADF STAT. No.
WR 105

115-10 ESCAPEMENT RECORD - Continued Previous No. 141

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1962								
July 26	A length	ADF						150 salmon at mouth
Aug 7	A length	ADF						No salmon observed
Aug 16	A length	ADF						Few pinks
Aug 21	A length	ADF	1,500					2,000-3,000 at mouth
Aug 27	G lake	ADF	69,000		6		2 cohos	500 in intertidal zone
Sept 12	A length	ADF						114,000 upstream
								138,000 downstream
Sept 12	A length	ADF						130,000 upstream
								161,000 downstream
1963								
July 29	A length	ADF						No fish observed
Aug 1	G mouth	ADF					Few cohos	Cohos jumping
Aug 15		ADF	4,500					Mixed; 3,000 counted through weir
Aug 27	A mouth	ADF						5,000 mixed fish at mouth
Aug 15-Oct 1	weir	ADF	67,315		723		2,881 cohos	Bio-Research Div. weir count

U. S. Fish & Wildlife Service Weir Counts

ADF STAT. No.
WR 105
Previous No. 141

Date	Pink	Chum	Coho	Remarks
1929				
Oct 5	191,948	5,728	2,856	Final weir total. Weir installed July 21.
1930				
July 20			38	
22			44	
23			46	
24			217	
25			166	
26			59	
27			2	
28				
29			20	
30			12	
31				
Aug 1				
2				
3			7	
4				
5			14	
6			5	
7			3	
8			2	
9				
10			6	
11			13	
12			857	
13		10	1,718	
14	278		1,000	
15	1,130	20	480	
16	228		50	
17	377		20	
18	1,495		60	
19	2,862	10	45	
20	3,091	7	55	
21	6,435	40	60	
22	7,114	125	175	
23	11,629	150	60	
24	14,214	500	40	
25	12,468	400	25	
26	14,679	84	25	
27	9,752	52		
28	13,700	12		
29	15,500	23		
30	7,737	56		
31	9,600	46		
Sept 1	6,600	104		
2	4,806	75		
3	3,050	56		
4	3,417	20		
5	7,776	128		
6	3,428	252		
7	1,980	40		
8	5,477	245		
9	4,700	256		
10	1,500	60		
11	2,496	120		
12	6,456	325		
13	15,000	644		

Date	Pink	Chum	Coho	Remarks
1930				
Sept 14	35,150	842		
15	31,129	652		
16	20,000	660	22	
17	18,136	757	72	
18	14,566	225	296	
19	38,189	241	395	
20	22,540	147	370	
21	14,606	35	560	
22	7,076	16	330	
23	4,198		152	
24	3,400		86	
25	2,300		32	
26	2,507		243	
27	1,410		252	
28	1,602	4	16	
29	1,401	20	122	
30	2,121	12	82	
Oct 1	790	6	14	
2	410	53	10	
3	52		10	
4	18		4	
Total	420,576	7,542	8,392	No further count. Weir removed Oct 4
1931				
July 5				
6				
7				
8				
9				
10			54	
11				
12			114	
13			22	
14				
15				
16				
17				
18				
19				
20				
21				
22				
23			23	
24			77	
25			245	
26			185	
27			103	
28			9	
29			23	
30	10		5	
31	7		2	
Aug 1	14		9	
2				
3				
4			2	
5				
6				

Weir Counts - Continued

ADF STAT. No. WR 105

Date 1931	Pink	Chum	Coho	Remarks
Aug 7				
8				
9				
10				
11				
12				
13				
14				
15				
16	5,442		40	
17	162		14	
18	5,006	13	21	
19	2,586	17	33	
20	464	11	13	
21	359	7	11	
22	22,553	650	43	
23	45,825	552	23	
24	34,500	417		
25	21,402	188	16	
26	25,159	280	23	
27	51,827	3,940		
28	29,465	2,015		
29	36,060	2,531		
30	31,781	1,235	67	
31	28,704	745	938	
Sept 1	30,144	3,400	1,110	
2	7,760	1,540	1,065	
3	2,462	2,393	1,220	
4	1,217	1,250	650	
5	1,797	2,019		
6	1,925	1,475	733	
7	2,968	1,200	180	
8	1,951	460	62	
9	11,396	4,805	1,410	
10	6,650	3,265	700	
11	9,638	15,572	1,505	
12	29,706	12,187	3,096	
13	7,101	818	990	
14	10,916	979	1,160	
15	6,639	657	1,270	
16	2,031	162	410	
17	236	178	18	
18	14			
19	642	38	74	
20	1,122	1,802	354	
21	400	1,300	81	
22	378	99	32	
23	950	59	27	
24	680	103	44	
25	847	67	24	
26	772	148	22	
27	265	37	11	
28	16	3	1	
Total	481,949	68,617	18,364	

Date	Pink	Chum	Coho	Remarks
1961				
Aug 7	53		399	
8	211		76	
9	17		16	
10	44		13	
11	0		0	
12	267	3	333	
13	17,139		1,065	
14	4,236		101	
15	130		4	
16	176		10	
17	662		11	
18	0		0	
19	430		2	
20	638		4	
21	470		12	
22	1,343		9	
23	5,138	4	8	
24	0		0	
25	0		0	
26	33,046	53	0	
27	2,542		5	
28	2,071	8	21	
29	1,010		6	
30	192	1	7	
31	2,776	76	51	
Sept 1	1,017	39	15	
2	299	16	7	
3	1,657	292	40	
4	472	66	4	
5	253	115	4	
6	114	72	2	
7	413	472	6	
8	3,875	860	54	
9	411	313	10	
10	420	269	12	
11	215	197	3	
12	341	347	17	
13	305	203	4	
14	242	96	0	
15	90	333	0	
16	63	250	0	
17	1,340	2,154	33	
18	24	91	0	
19	377	342	16	
20	62	68	4	
21	45	129	11	
22	97	223	7	
23	249	536	6	
24	353	83	2	
25	185	50	3	
26	93	12	0	
27	38	32	0	
28	88	31	1	
29	667	277	117	
30	163	43	11	
Oct 1	16	46	278	
2	23	13	3	
Total	86,598	8,215	2,823	

Date	Pink	Chum	Coho	Remarks
1962				
Aug 9	67		159	
10	2,195		249	
11	297		17	
12	1,313		67	
13	102		24	
14	55		5	
15	503		71	
16	5,619		287	
17	10,023	2	128	
18	1,938	1	12	
19	1,950		5	
20	8,821	11	23	
21	11,637	8	23	
22	6,324	1	15	
23	10,801	18	5	
24	8,999	12	12	
25	9,901	11	14	
26	7,833	4	20	
27	5,842	3	9	
28	4,365	6	14	
29	4,463	10	13	
30	3,448	1		
31	1,862	8	1	
Sept 1	1,605	7		
2	551	4		
3	527	13		
4	380	5		
5	426	35		
6	316	12		
7	129	66		
8	6,768	319	23	
9	1,844	146	21	
10	990	57	41	
11	168	8	7	
12	90	33	5	
13	935	219	16	
14	3,635	189	145	
15	1,360	41	51	
16				
17	92	9	2	
18	4	3	2	
19	1	1		
20				
21				
22				
23				
24				
25	65	21	51	
26				
27	10	19	17	
28	19	13	6	
29	39	38	54	
30				
Oct 1				
2	4			
3				

Date	Pink	Chum	Coho	Remarks
1962				
Oct 4				
5				
6	23	1	50	
7				
8				
9				
10				
11				
12				
13		2	39	
14				
15				
16			668	
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27			131	
Total	128,339	1,357	2,502	

115-10 Weir Counts - Continued ADF STAT. No. WR 105

Date		Pink	Chum	Coho	Remarks
1963					
		1,200		300	Estimated in stream prior to weir installation
Aug	15	5,207		395	
	16	1,387		108	
	17	176		7	
	18	6		0	
	19	5		1	
	20	0		0	
	21	0		0	
	22	0		0	
	23	0		0	
	24	57		1	
	25	13		0	
	26	0		0	
	27	58		2	
	28	3		0	
	29	0		0	
	30	0		0	
	31	0		0	
Sept	1	657	3	2	
	2	701	1	5	
	3	5,293	21	515	
	4	18,909	107	954	
	5	19,988	68	185	
	6	7,803	159	116	
	7	3,844	60	65	
	8	89	1	2	
	9	58	4	1	
	10	18		6	
	11	530	22	9	
	12	246	15	19	
	13	17	1	1	
	14	179	31	4	
	15	58	4	4	
	16	32	0	0	
	17	182	77	23	
	18	437	73	36	
	19	45	8	5	
	20	68	14	16	
	21	0	0	0	
	22	10	5	0	
	23	14	12	8	
	24	6	4	0	
	25	3	1	0	
	26	1	2	1	
	27	1	0	0	
	28	5	0	0	
	29	1	0	0	
	30	8	30	90	
Total		67,315	723	2,881	

Weir removed October 1, 1963

Date		Pink	Chum	Coho	Remarks
1964					
Aug	8	37			
	9	2			
	10	0			
	11	0			
	12	1			
	13	0			
	14	500			
	15	183			
	16	1,806			
	17	1,986		65	
	18	749		282	
	19	2,570		10	
	20	1,246		13	
	21	238		11	
	22	0		0	
	23	30		0	
	24	0		0	
	25	14,564	84	47	
	26	7,502	4	36	
	27	2,574	1	14	
	28	3,128	2	31	
	29	5,669	86	29	
	30	2,202	5	15	
	31	1,670	0	28	
Sept	1	4,000	3	5	
	2	8,400	4	8	
	3	1,670	14	1	
	4	6,593	21	3	
	5	1,582	10	1	
	6	5,258	82	1	
	7	9,283	16	2	
	8	2,994	28	0	
	9	448	5	0	
	10	1,697	50	0	
	11	1,533	99	0	
	12	915	38	0	
	13	15,837	242	0	
	14	15,211	80	0	
	15	6,610	23	0	
	16	4,861	51	18	
	17	3	0	0	
	18	0	0	0	
	19	805	31	12	
	20	142	2	0	
Totals		134.499	981	632	

Note: About 3,000 pinks below the weir at the time weir removed. Count of total pinks probably low. Adjusted count of 138, 112 suggested.

ADF STAT. No.
115-10 WR 106
56°02' N. 133°04.2' W. Previous No. 144

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, WHALE PASSAGE, S. corner.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle, Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 12.6 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Shelter may be found on the N. side of the passage near its S. entrance in the small cove just past the two charted rocks.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 10'/4".
GRADIENT AND VELOCITIES Gradual.
BOTTOM Gravel and bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 20'/10".
GRADIENT AND VELOCITIES Gradual.
BOTTOM Gravel and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS An 8' falls three-fourths mile upstream is a block to salmon.
TRIBUTARIES
SCHOOLING AREAS Numerous bedrock holes.
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 106
Previous No. 144

115-10 ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 29	G 0.5	FRI	700	0	0	0		Heavy schools at mouth
Sept 19	G 1.0	FRI	31,800	0	600	6		Excellent showing
1950								
Aug 28		FWS	201		26			
Sept 14	G	FRI	187	47	27	18	2 cohos	
1951								
Sept 21	0.7	FWS	6,000		450	328		
1953								
Aug 11	A	FWS						No fish observed
1954								
Aug 10	A	FWS						No fish observed
Season		FWS						No fish observed
1955								
Aug 21	A	FWS						1 jump off mouth
Sept 15	G 1.7	FWS	10,000		1,500			
Sept 18	G	ADF	2,000					
1956								
Aug 15	A to lake	FWS	400					
Aug 27	G 0.3	FWS	150					
Sept 2	G	FWS	200		50			
Sept 11	G length	FWS	2,000					
Sept 12	A length	FWS	3,000					
Sept 18	G 0.7	FWS	13,000		700			3,000 off mouth
1957								
Aug 26	G 0.5	FWS	2,000		1,500		4 cohos	
Aug 27	G	FWS	30		15		5 cohos	
Aug 29	G 0.5	FWS	2,500		1,600		2 cohos	
Sept 7	G 0.5	FWS	100		50			
Sept 11	G 0.7	FWS	110		850			
1958								
Aug 29	G 0.7	FWS	19		4			
Sept 1	G 0.5	FWS	77					
Sept 26	A length	FWS	50					
1959								
Aug 12	G 0.1	FWS						25 chums in tidal zone
Sept 6	G	FWS	25					Tidal zone
1960								
	No surveys							
1961								
	No surveys							

115-10
56°00.3' N. 132°57.9' W.

ADF STAT. No.
WR 107
Previous No. 150

WRANGELL, CLARENCE STRAIT, GOLD AND GILLIGAN LAGOON, entrance to Kashevarof Passage.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE Aerial 1 square mile (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Fair visibility.

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ADF STAT. No.
WR 107
Previous No. 150

115-10 ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 11	A	FWS						No fish observed
Sept 27	A	FWS						None off mouth. Thousands unidentified salmon
1954								
Season		FWS						Good escapement
1955								
Aug 21	A length	FWS						No fish observed
Season	G length	FWS					500 cohos	
1956								
Aug 11	G length	FWS						No fish observed
Sept 3	G	FWS	6		25	2		
1957								
Sept 27	A 3.0	FRI						Many dead, unidentified
1958								
Aug 30	A 1.0	FWS						No fish observed
Sept 19	A length	FWS						No fish observed
1959								
	No record							
1960								
	No surveys							
1961								
	No surveys							

115-10 COFFMAN CREEK ADF STAT. No. WR 108
56°00' N. 132°51.2' W. Previous No. 154

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, COFFMAN COVE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good but limited by the small size of the stream.
STREAM TEMPERATURES Cold range. Observed temperatures: 50° F., 9/21/52; 47° F., 10/3/52; 45° F., 10/9/52; 48° F., 10/4/53.
VALLEY DESCRIPTION
DRAINAGE 5.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Good anchorage may be had in the middle of the S E. part of the cove. A midchannel course will carry in safely.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH .0.5 mile. AVERAGE WIDTH/DEPTH 20'/3".
GRADIENT AND VELOCITIES Slight.
BOTTOM Clean, fine gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/3".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Numerous holes under log jams.
SPAWNING AREAS
GENERAL NOTES A very small stream of continuous fine gravel, sand, and many windfalls. Very winding.

ADF STAT. No.
WR 108
Previous No. 154

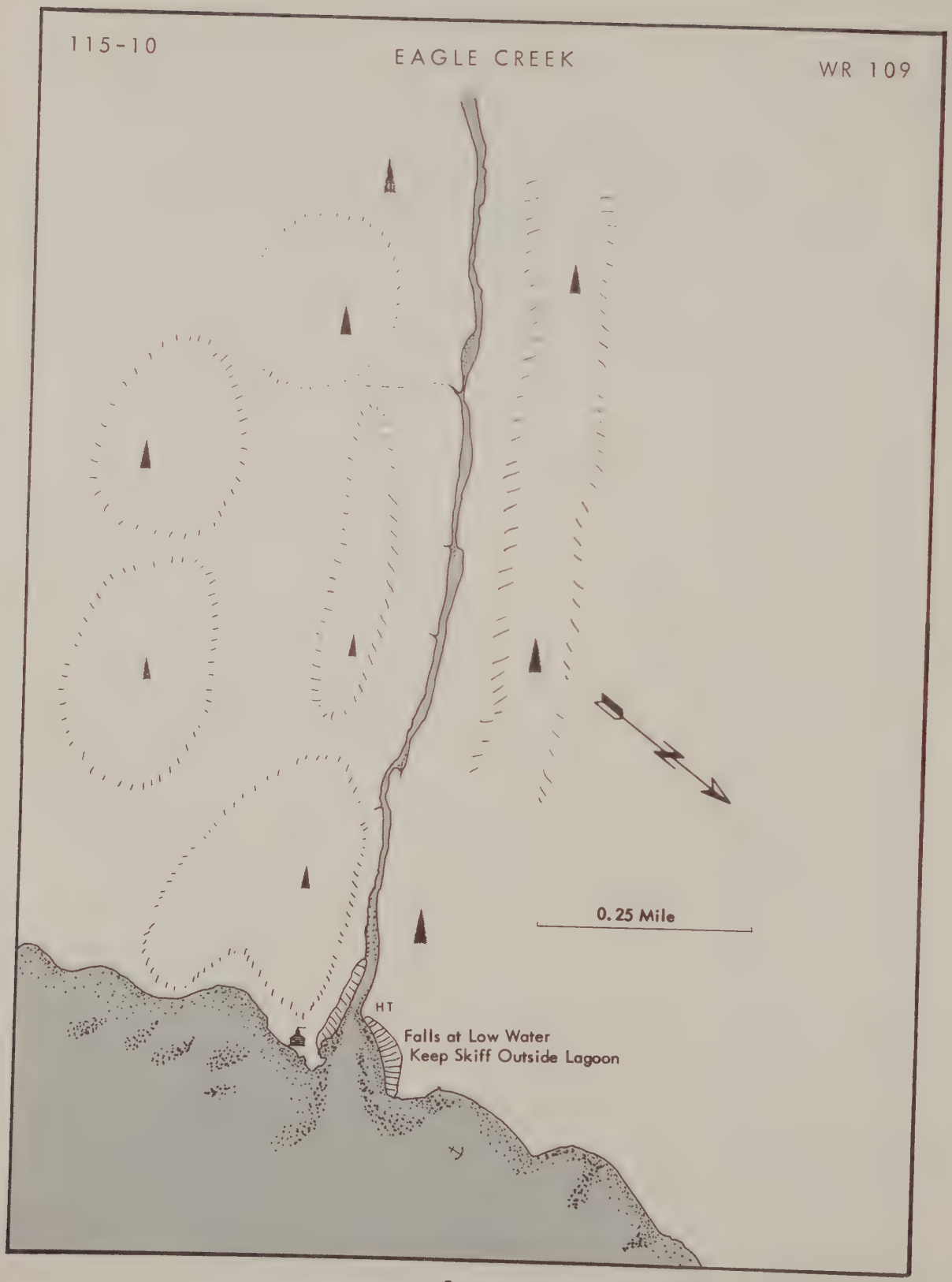
115-10

COFFMAN CREEK

ESCAPEMENT CREEK

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 29	G 0.1	FRI	15	0	2	0		Very minor stream
1952								
Sept 21	G 0.5	FRI	82	3	0	0		
Oct 3	G 0.5	FRI	23	1	1	0		
Oct 9	G 0.5	FRI	2	2	0	0		
1953								
Aug 11	A	FWS						Few fish observed
Sept 3	A 1.0	FWS						300 pinks and chums in intertidal zone
Sept 6	A	FWS	25					
Sept 23	A 1.0	FWS					Few cohos	
Sept 25	A 1.0	FWS						300 pinks and chums in intertidal spawning
Sept 26	G 0.2	FRI						Stream flooding. Vis. zero
Oct 4	G 0.5	FRI	44	7			25 cohos	
1954								
Season		FWS	10,000					
1955								
Aug 21	A	FWS						Visibility good
Sept 14	G 1.5	FWS	6,000					75 dead. Estimate 2,000 pinks in sloughs at mouth
1956								
Aug 15	A 2.5	FWS						No fish observed
Sept 11	G 1.0	FWS	2,000					Plus 5,000 in tidal zone
Sept 19	G 1.2	FWS	350					
1957								
Aug 17	A length	FWS			15			
Aug 21	A 1.0	FWS			25			
Sept 12	G 0.5	FWS	18		4			
1958								
Aug 13	A length	FWS						No fish observed
Aug 25	G 2.0	FWS						No chum observed
Sept 26	A 2.0	FWS						No fish observed
1959								
Aug 12	G	FWS						No fish observed
Sept 12	G 0.3	FWS						No fish observed. Loggers report 3,000 pinks in cove
1960								
Aug 30	A length	ADF						Stream damaged by logging
1961								
Aug 26	A length	ADF	present					Water too dark for survey
1962								
July 26	A 1.0	ADF						No fish observed
Aug 7	A 1.0	ADF						No fish observed
Aug 30	A length	ADF						No fish observed
1963								
Aug 15	G to log bridge	ADF			12			Stream muddy from bridge to tidewater


115-10
EAGLE CREEK
WR 109
0.25 Mile
HT
Falls at Low Water
Keep Skiff Outside Lagoon

115-30 EAGLE CREEK ADF STAT. No. WR 109
55°58' N. 132°58.2' W. Previous No. 155

WRANGELL, CLARENCE STRAIT, 1.8 miles S. of Luck Pt.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Normal range. Observed temperatures: 59°F., 9/13/50; 52.5°F., 9/26/50; 48.5°F., 10/2/50; 57°F., 8/1/51; 57°F., 8/13/51; 56°F., 8/25/51; 53°F., 9/8/51; 65°F., 8/29/51; 58°F., 9/14/51; 52°F., 10/2/52; 50°F., 10/9/52.
VALLEY DESCRIPTION
DRAINAGE 30 square miles (polar planimeter).
STREAM MOUTH IDLENTIFICATION No tideflat. Flows directly into Strait. Rock 100 yards off mouth.
ANCHORAGE Anchoring off the mouth is safe only in calm weather. Anchor Coffman Cove or Ratz Harbor.
TRAILS AND SURVEY ROUTES This stream is extremely difficult to travel along its margins and is nearly impossible to wade because of the slippery rocks. Game trails follow the ridges on both sides, but are strewn with downfalls. Most easily surveyed from lake down. Cabin on lake.
AERIAL SURVEY NOTES Good visibility, in upper reaches.

INTERTIDAL ZONE

LENGTH 0.2 mile AVERAGE WIDTH/DEPTH 30'/10".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Shattered bedrock, boulders, and some gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A large hole just above the constriction.
SPAWNING AREAS About 100 yards at the upper end of this zone offers limited spawning facilities. Not much spawning takes place in this zone.
GENERAL NOTES This area has steep walls for the first 150 yards. Travel is difficult in this area.

UPSTREAM

LENGTH ACCESSIBLE 1.8 miles to lake. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Large boulders, bedrock, and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Several large pools, mostly in upper half of stream.
SPAWNING AREAS Spawning facilities are limited to the stream's margins and gravel pockets between boulders except in upper one-half of stream which is excellent spawning area.
GENERAL NOTES Almost a continuous rapids for first mile.

ADF STAT. No.
WR 109
Previous No. 155

115-30 EAGLE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1928								
Sept 29	Weir	USBF	405,762		1,982		523 cohos, 2,701 reds	Final total. Weir installed June 27
1929								
Oct 5	Weir	USBF	102,654		5,066		1,861 cohos, 1,939 reds	Final total. Weir installed July 2
1930								
Oct 1	Weir	USBF	223,012		23,224		6,525 cohos, 6,371 reds	Final total, Weir installed June 25
1931								
Sept 29	Weir	USBF	532,863		50,772		3,289 cohos, 15,749 reds	Final total, Weir installed July 5
1949								
Aug 28	G 1.0	FRI	5,500	6				3,000 off mouth
Sept 18	G 1.0	FRI	14,500	12				3,000 pinks
1950								
Aug 26		FWS	1,500		7,500		5,000 reds	
Sept 13	G 0.6	FRI	5,460		106	5		
Sept 26	G 0.6	FRI	3,986	129	3,230	96		
Oct 2	G 0.6	FRI	5,066	2,480	2,449	1,389		
1951								
Aug 29	G 0.6	FRI	317	8	0	0	4 cohos, 40 reds	Many fish off mouth
Sept 1	0.7	FWS	365				2 reds	
Sept 14	G 0.6	FRI	13,000	20	30	0		1 dead reds
Sept 25	G 0.6	FRI-FWS	15,000		560		1 reds	Few dead pinks 1,000 pinks spawning 4,000-5,000 off mouth
1952								
Oct 2	G 0.5	FRI	16	39	13	41		Flooding
1953								
Aug 7	A	FWS						Jumpers at mouth
Aug 11	A	FWS						Few at mouth
Sept 3	A	FWS						Chums and pinks seen
Sept 23	A	FWS	900		500		Few cohos	High water
1954								
Sept 8		FWS						6 salmon head of cove
Sept 27	A	FWS	30,000		0			Some dead pinks
1955								
July 1	G	FWS						1,000 reds entered
July 6	G 0.1	FWS						Reds present
July 18	G 0.1	FWS					1,000 reds	Holes full of red
July 21	G 0.1	FWS	530				200 reds	
July 23	G 0.1	FWS	1,000				500 reds	1,000 pinks, 200 reds off mouth
July 24	G 0.1	FWS	1,000					200 reds off mouth
July 25	G 0.1	FWS	1,300				50 reds	Good showing off mouth
July 28	G 0.1	FWS	1,000					
July 29	A	FWS	1,300					
July 30	A	FWS	1,150					Many jumpers off mouth
Aug 1	A	FWS	500					Creek still low
Aug 6	G 0.1	FWS	5,000		100			

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1955								
Aug 7	G 0.1	FWS	1,000					Level high
Aug 11	G 0.1	FWS	500					
Aug 18	G 0.1	FWS	1,000		300		10 cohos	Many cohos off mouth
Aug 19	G 0.1	FWS	2,000					
Aug 22	G 0.1	FWS	6,000					Chums showing creek mouth
Aug 23	G 0.1	FWS	7,000					
Aug 24	G 0.1	FWS	6,000					
Aug 25	G 0.1	FWS	8,000					Cohos jumping near creek
Sept 23	A	FRI	80,000					In flats below lake
Sept 28	A	FRI	125,000					Some dead pinks
1956								
June 26	A	FWS					15 reds	
Aug 12	G 0.5	FWS					34 reds	
Aug 19	G 0.2	FWS					33 reds	
Aug 21	G	FWS						1,500 fish
Aug 23	G 100'	FWS						2,500 fish
Aug 26	G mouth	FWS						Many salmon
Sept 9	A to lake	FRI	20,000					
Sept 11	A to lake	FWS	15,000					
Sept 20	A to lake	FWS	100,000					
Sept 23	A	FRI	>30,000					
Sept 28	A mark	FRI	80,000					20,000-30,000 at mouth
1957								
July 14-18	G 0.1	FWS	50-100				100-150 reds	
July 25	G 0.1	FWS	250					
July 28	G 0.1	FWS	100-150					
Aug 2	G 0.1	FWS	15					
Aug 6	G 0.1	FWS	30				1 cohos	
Aug 8	G 1.7	FWS	140					
Aug 16	G 0.1	FWS	400				100 cohos	
Aug 16	G 0.1	FWS	800				200 cohos	
Aug 19	G 0.1	FWS	1,200					
Aug 23	G 0.7	FWS	500					
Aug 24	G 0.5	FWS	400		10			
Aug 28	G 0.1	FWS	1,200		50			
Aug 31	G 0.1	FWS	1,500		200			
Sept 11	G mouth							4,000-5,000 mixed in front of mouth
Sept 22	A mark	FRI	20,000		>5,000			
Sept 27	A mark	FRI	3,000	300	20,000	2,000		
1958								
July 10	G mouth	FWS					400-600 reds	
July 19	G mouth	FWS					300 reds	
July 25-28	G mouth	FWS						2,000 salmon at mouth
July 28	G mouth	FWS						2,000 pinks at mouth
Aug 21	G 1.0	FWS	2,000					3,500 pinks at mouth
Aug 23-27	G mouth	FWS						4,000 pinks at mouth
Sept 7	A to lake	FWS	3,000		1,000			
Sept 10	G 1.0	FWS	200		10			

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1958								
Sept 17	A to lake	FWS	2,000					200 off mouth
Sept 17	A length	FWS	17,500					
Sept 22	G mouth	FWS	100		1			
Sept 26	A 2.0	FWS	25,000	2,000				
Sept 29	G mouth	FWS						No fish observed
1959								
July 9	G	FWS					1,500 reds	Tidal zone
July 11	G	FWS					3,000 reds	Tidal zone
July 12	G	FWS					1,500 reds	Tidal zone
July 18	G	FWS					1,000 reds	Tidal zone
Aug 12	G	FWS	1,000					Tidal zone
Aug 14	G	FWS	1,000					Tidal zone
Aug 18	G	FWS	4,500					Tidal zone
Aug 23	G	FWS	50					800 pinks off mouth
Sept 12		FWS						Too rough to land
1960								
Sept 7	A length	ADF						No salmon observed
1961								
Aug 1	A mouth	ADF						No salmon observed
Aug 26	A mouth	ADF						300 off mouth
Aug 29	G 1.8	ADF	19,000	0			Few cohos	20,000 pinks at mouth
1962								
July 26	A	ADF						250 at mouth
Aug 7	A 1.0	ADF						No salmon observed
Aug 21	A length	ADF	4,000					
Aug 30	A length	ADF						Excellent showing of fish throughout
Sept 5	A mouth	ADF						3,000 at mouth
1963								
July 15	A mouth	ADF						No fish observed
Aug 7	A length	ADF						No fish observed
Aug 21	G mouth	ADF						7,000 salmon at mouth

115-30

EAGLE CREEK

ADF STAT. No. WR 109
Previous No. 155

U. S. Fish & Wildlife Service Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
June 27				16				
28				9				
29				3				
30				3				
July 1								
2								
3								
4				27				
5				18				
6				4				
7								
8				64				
9								
10				3				
11				23				
12				232				
13				446				
14				307				
15				19				
16				12				
17				9				
18								
19								
20				2				
21				268				
22				97				
23				99				
24				23				
25				71				
26				64				
27				23				
28				14				
29				3				
30				3				
31				2				
Aug 1								
2								
3								
4								
5				9				
6				69				
7				9				
8				4				
9	9			111				
10	198			162				
11	2,855			196				
12	1,826			77				
13	2,955	3		69				
14	3,901	3	5					
15	3,460			2				
16	886			8				
17	5,145			22				
18	3,369			8				
19	1,939							
20	1,225			6				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
Aug 21	2,587			4				
22	901			3				
23	620			5				
24	1,654			4				
25	2,010			11				
26	259							
27	3,213		28	13				
28	7,237	3	14	17				
29	5,116	2	5	3				
30	1,223		6					
31	789	3	8					
Sept 1	1,002		4	2				
2	3,300	2	6	3				
3	3,262		16	2				
4	4,807		7	3				
5	3,074		5	2				
6	2,950	5	8					
7	2,830	2	5					
8	3,300	4	10	3				
9	13,660	28	51					
10	10,642	27	44					
11	8,100	38	52					
12	58,000	100		6				Includes 30,000 pink on each of four days when gates of weir were open
13	67,810	150	50	4				
14	70,401							
15	65,660	262	78					
16	8,800	178						
17	5,934	270						
18	3,938	62						
19	1,400	19	21					
20	5,225	212	31					
21	1,800	116	22					
22	1,680	212	9					
23	915	82						
24	1,080	45	7					
25	850	24						
26	625	28	7					
27	455	50	11					
28	585	35	9					
29	300	17	4					
30								
Total	405,762	1,982	523	2,701				
1929								
July 2				53				
3								
4								
5				18				
6				91				
7				42				
8				38				
9				26				
10				17				
11				12				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
July 12				19				
13				6				
14				22				
15				32				
16				22				
17				420				
18				17				
19				77				
20				23				
21								
22								
23		4		78				
24				21				
25				60				
26				66				
27		3		225				
28				132				
29		1	4	112				
30			2	61				
31		2	3	16				
Aug 1		1	2	14				
2			1	22				
3				15				
4				18				
5			2	24				
6								
7		49		5				
8								
9		19		9				
10								
11		14	19	27				
12	41	3		18				
13	50	4		8				
14	34		4	9				
15	70	6		10				
16	424	23	36	18				
17	866	9	32	26				
18	1,054		30					
19	1,850	16	55					
20	1,550	45	275					
21	1,700	34	186	9				
22	3,500	40	110					
23	5,000	80	115					
24	4,700	90	104					
25								
26	7,100	14	28					
27	12,400	90	84					
28	4,750	26	38					
29	5,800	48	39					
30	7,100	49	43					
31	5,000	19	24					
Sept 1	3,721	18	16					
2	4,055	11	9					
3	4,161	19	8					
4	3,606	20	21					
5	1,678	24	20					

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
Sept 6	2,618	51	34					
7	1,757	30	5					
8	616	29	29					
9	1,041	32						
10	1,003	49	10					
11	1,150	44	7					
12	1,850	92	11					
13	1,800	115	17					
14	429	28	4					
15	1,200	140	21					
16	1,270	116	13					
17	871	107	8					
18	971	178	33					
19	2,627	307	51					
20	594	287	61					
21	61	57	7					
22	158	92	9					
23	97	110	2					
24	99	74	1					
25	144	140	1					
26	162	100						
27	158	38	1					
28	195	42						
29	115	18						
30	192	119	1					
Oct 1	251	379	1					
2	715	592	4					
3	150	589	152					
4								
5	150	330	68					
Total	102,654	5,066	1,861	1,938				
1930								
June 25				5				
26				9				
27				7				
28				8				
29								
30								
July 1								
2								
3								
4				61				
5				54				
6				264				
7				107				
8				42				
9				184				
10				856				
11				340				
12				52				
13				37				
14				61				
15				14				
16				11				
17				39				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
July 18				30				
19				86				
20				116				
21				41				
22				53				
23		17		442				
24				1,610				
25				254				
26		3		114				
27				171				
28		3		103				
29				37				
30		2		11				
31				41				
Aug 1		4		28				
2				57				
3				16				
4		9		6				
5		1		14				
6								
7				19				
8		2		14				
9				11				
10				27				
11		3		41				
12				12				
13	17		3	443				
14	11		5	79				
15	26	4	6	54				
16	18			38				
17	12			29				
18	19	6		8				
19				10				
20	9	3		41				
21	710	3		47				
22	922	7	104	8				
23	828		64	6				
24	667		31	9				
25	540	3	18	8				
26	2,702	2	26	6				
27	1,549	3	18	4				
28	394		12	3				
29	2,559	4	35	4				
30	3,124	1	49	18				
31	1,500	2	19	7				
Sept 1	4,900	2	137	8				
2	1,547	4	48	6				
3	1,009	7	25	2				
4	1,009	8	160	5				
5	5,209	13	176	8				
6	4,875	52	102	2				
7	5,570	55	115					
8	10,914	124	95					
9	11,450	153	72	2				
10	8,012	68	40	3				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
Sept 11	6,800	55	34					
12	7,400	22	28					
13	9,600	119	30					
14	22,000	555	146	5				
15	20,000	1,115	108	3				
16	13,500	2,040	268					
17	13,000	2,900	760					
18	15,000	1,452	575					
19	11,000	1,280	864					
20	10,500	1,364	900					
21	5,380	918	322					
22	5,264	745	157					
23	2,041	710	36					
24	1,726	991	23					
25	1,477	719	22					
26	1,154	470	48					
27	4,080	852	116					
28	5,963	2,951	239					
29	3,279	1,473	123					
30	3,255	1,181	210					
Oct 1	2,560	744	156					
2								
3								
4								Weir removed Oct. 4
Total	223,012	23,224	6,525	6,371				
1931								
July 5				47				
6				31				
7				52				
8				128				
9				161				
10				218				
11				316				
12				407				
13				462				
14				342				
15				372				
16				107				
17				52				
18				28				
19				29				
20				264				
21				967				
22				17				
23				236				
24				265				
25				947				
26				2,841				
27				711				
28				729				
29				337				
30				702				
31				163				
Aug 1				395				
2				31				
3				24				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Aug 4				15				
5				343				
6				560				
7	11			1,061				
8	3			105				
9								
10								
11								
12								
13								
14								
15								
16	420	1	34	113				
17	128		6	107				
18	348		24	163				
19	1,421		20	192				
20	866	2	45	228				
21	1,411		11	90				
22	4,229	1	38	159				
23	15,234	22	174	380				
24	50,139	88	278	644				
25	37,585	38	114	90				
26	26,380	50	111	37				
27	41,178	78	172	32				
28	61,110	381	247	35				
29	41,425	266	144	14				
30	27,000	264	158					
31	23,000	134	139					
Sept 1	30,537	165	120					
2	27,551	500	77					
3	20,024	396	51					
4	17,845	763	61					
5								
6								
7	25,011	1,641	130					
8	15,089	894	27					
9	14,910	1,635	108					
10	12,118	3,644	179					
11	10,200	3,508	111					
12	7,450	4,608	70					
13	6,800	5,680	244					
14	4,600	3,380	175					
15	2,240	1,860	64					
16	1,335	2,202	42					
17	1,158	2,412	22					
18	960	2,525	19					
19	627	1,856	12					
20	956	2,900	41					
21	476	2,004	9					
22	210	1,246	0					
23	270	1,384	0					
24	208	1,040	0					
25	120	950	12					
26	66	472	0					
27	92	852	0					
28	122	930	0					
Total	532,863	50,772	3,289	15,749				

ADF STAT. No.
WR 110
Previous No. 156

115-30
55°53.3' N. 132°37.9' W.

WRANGELL, CLARENCE STRAIT, RATZ HARBOR, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE 250,000
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 48° F., 10/5/53; 54° F., 9/15/53; 49.5° F., 9/27/53.
VALLEY DESCRIPTION Logged.
DRAINAGE 8.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters through flats at head of bay.
ANCHORAGE This harbor affords protection from all except N. to NE.. winds. The usual anchorage is in the S. part of the harbor.
TRAILS AND SURVEY ROUTES Easily traveled up the streambed. Game trails follows both banks.
AERIAL SURVEY NOTES Logging road for length. Usually too dark for survey.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 25'/3"
GRADIENT AND VELOCITIES Gentle.
BOTTOM Algae, rocks, and barnacles; clean gravel further up.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two holes between the intertidal forks and the high tidemark.
SPAWNING AREAS The upper 200 yards has a clean gravel bottom and offers fair spawning facilities.
GENERAL NOTES The stream branches in this area and the left branch goes to a lagoon while the right branch continues as the main stream.

UPSTREAM

LENGTH ACCESSIBLE To falls between lakes. AVERAGE WIDTH/DEPTH 25'/4".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Small gravel and occasional boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Between lakes.
TRIBUTARIES One good tributary below first lake, available to barrier falls 0.7 mile.
SCHOOLING AREAS Numerous holes are found throughout.
SPAWNING AREAS Three miles of good spawning area.
GENERAL NOTES Cohos, pinks, and reds spawn between lakes. Cohos reported above falls. Rock work planned in 1964 to enable reds and cohos to enter upper lake. Entire watershed to be logged by 1964. Little Ratz Harbor Creek is immediately south of Ratz Harbor and is reached by log road; to be clear cut in 1964. Good minor pink and coho stream; 4,000-5,000 pinks in 1963.

ADF STAT. No.
WR 110

115-30 ESCAPEMENT RECORD Previous No. 156

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Aug 28	G 1.0	FRI	987	5				Scattered jumps in bay
Sept 18	G 1.0	FRI	4,450	9				3,000 pinks off mouth
1950								
Aug 26		FWS						2,000 pinks and chums
1953								
Aug 12	G 0.2	FWS						No fish observed
Aug 21	G 0.2	FWS						Few jumpers observed
Aug 30	G 0.2	FWS						50 salmon observed
Sept 10	A	FWS						Few salmon observed
Sept 15	G 0.6	FRI	710	60	280	53		
1954								
Sept 27	A	FRI	13,000		0	0		Some dead pinks off mouth
1955								
Aug 21		FWS						No fish observed
Aug 22	G 1.5	FWS						No salmon in bay
Aug 25	G 1.5	FWS	200					
Sept 13	G 1.5	FWS	7,000	200				500 pinks in sloughs, right
1956								
Aug 15	A lake	FWS						No fish observed
Sept 4	A lake	FWS						No fish observed
Sept 9	A to lake	FRI	4,000					>15,000 on flats; 5,000 chums at mouth
Sept 11	A lake	FWS	3,000					3,000 in bay
Sept 19	G 1.0	FWS	25,000		5,000			
1957								
Aug 17	G mouth	FWS						250 pinks at mouth
Sept 27	A lake	FRI	1,000	>1,000				Few live chums
Season		FWS	4,000				2,000 cohos	
1958								
July 25-26	G mouth	FWS						3,000 reds at mouth
Aug 21	G 1.5	FWS						375 pinks at mouth
Aug 29	G mouth	FWS						125 pinks at mouth
Aug 30	G mouth	FWS						175 pinks at mouth
Sept 7	A	FRI	>400					None observed off mouth
Sept 7	A length	FWS	300					
Sept 9	G 2.0	FWS	945					
Sept 17	A mkr	FWS	1,500					
Sept 17	A	FRI	1,500					Few dead pinks. None at mouth
Sept 17	G 1.0	FRI	1,680	60	121	15		
Sept 19	A 1.0	FWS	4,500					
Sept 23	A length	FWS	2,000					
Sept 26	G 2.0	FWS	4,250		750			
1959								
Aug 4	A 1.0	FWS	10					
Sept 12	G 0.2	FWS						No fish observed

ADF STAT. No.
WR 110
Previous No. 156

115-30 ESCAPEMENT RECORD - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1960								
Aug 24	A 0.5	ADF						No salmon observed
1961								
Aug 26	A 0.5	ADF						Pink present. Stream too dark to estimate
1962								
July 26	A 0.5	ADF						No fish observed
Aug 7	A 1.0	ADF						1,000 at mouth
Aug 30	A length	ADF	15,000					700 in intertidal zone
Sept 20	G to 2d lake	ADF	20,000				100 reds	Good seeding of pinks
1963								
Aug 7	A to 2d lake	ADF						No fish observed in stream; 1,500 at mouth
Aug 14		ADF	400					
Aug 16	G to 1st lake	ADF	2,300					Stream muddy
Aug 21	A	ADF						200 salmon in intertidal zone

ADF STAT. No.
142-30 WR
55°10.6' N. 132°05.2' W. Previous No.

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, EXCHANGE COVE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES
STREAM TEMPERATURE
VALLEY DESCRIPTION
DRAINAGE
STREAM MOUTH IDENTIFICATION Enters at head of Exchange Cove.
ANCHORAGE At entrance of Exchange Cove.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Only the intertidal area can be aerial surveyed.

INTERTIDAL ZONE

LENGTH 1.0 mile. AVERAGE WIDTH/DEPTH 50'/8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mostly sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth.
SPAWNING AREAS Upper intertidal area only.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR

142-30 ESCAPEMENT RECORD Previous No. 139

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 25	G 0.2	FWS						No fish observed
1955								
Aug 24	A	FWS						No fish observed
Sept 16	G 0.7	FWS	2,000					Chum present
1956								
Aug 15	A to lake	FWS						No fish observed
Sept 11	A	FWS	6,000-8,000					
Sept 17	G 0.7	FWS	600		40			
1957								
Aug 10	A 1.0	FWS						No fish observed
Aug 26	G 0.5	FWS	150		50			5,000 pinks in cove
Sept 11	G 1.0	FWS	350	20	690	129		
1963								
Aug 27	A bay	ADF						Many at mouth; jumps in bay

ADF STAT. No.
WR
Previous No. 142
No. 109

115-10
56°06' N. 133°08.4' W.

WRANGELL, CLARENCE STRAIT, KASHEVAROF PASSAGE, WHALE PASSAGE, NECK LAKE,
1.5 miles from head

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES Poor.
STREAM TEMPERATURE
VALLEY DESCRIPTION
DRAINAGE 16.6 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters short lagoon on W. shore of Whale Passage at head.
ANCHORAGE Small bight 0.5 mile S. of stream entrance.
TRAILS AND SURVEY ROUTES Trail to lake on E. bank.
AERIAL SURVEY NOTES Impossible to survey from air.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Swift.
BOTTOM Mostly bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off stream mouth.
SPAWNING AREAS Very limited.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.1 mile. AVERAGE WIDTH/DEPTH 20'/16".
GRADIENT AND VELOCITIES Swift.
BOTTOM Some gravel and bedrock.
MARKER DISTANCE None.
MARKER IDENTIFICATION
BARRIERS Falls at 0.1 mile upstream.
TRIBUTARIES None.
SCHOOLING AREAS
SPAWNING AREAS Very limited.
GENERAL NOTES

115-10

ESCAPEMENT RECORD

ADF STAT. No. WR
Previous No. 142
No. 109

[Counts made by ground surveys are designated by G; aerial surveys by A]

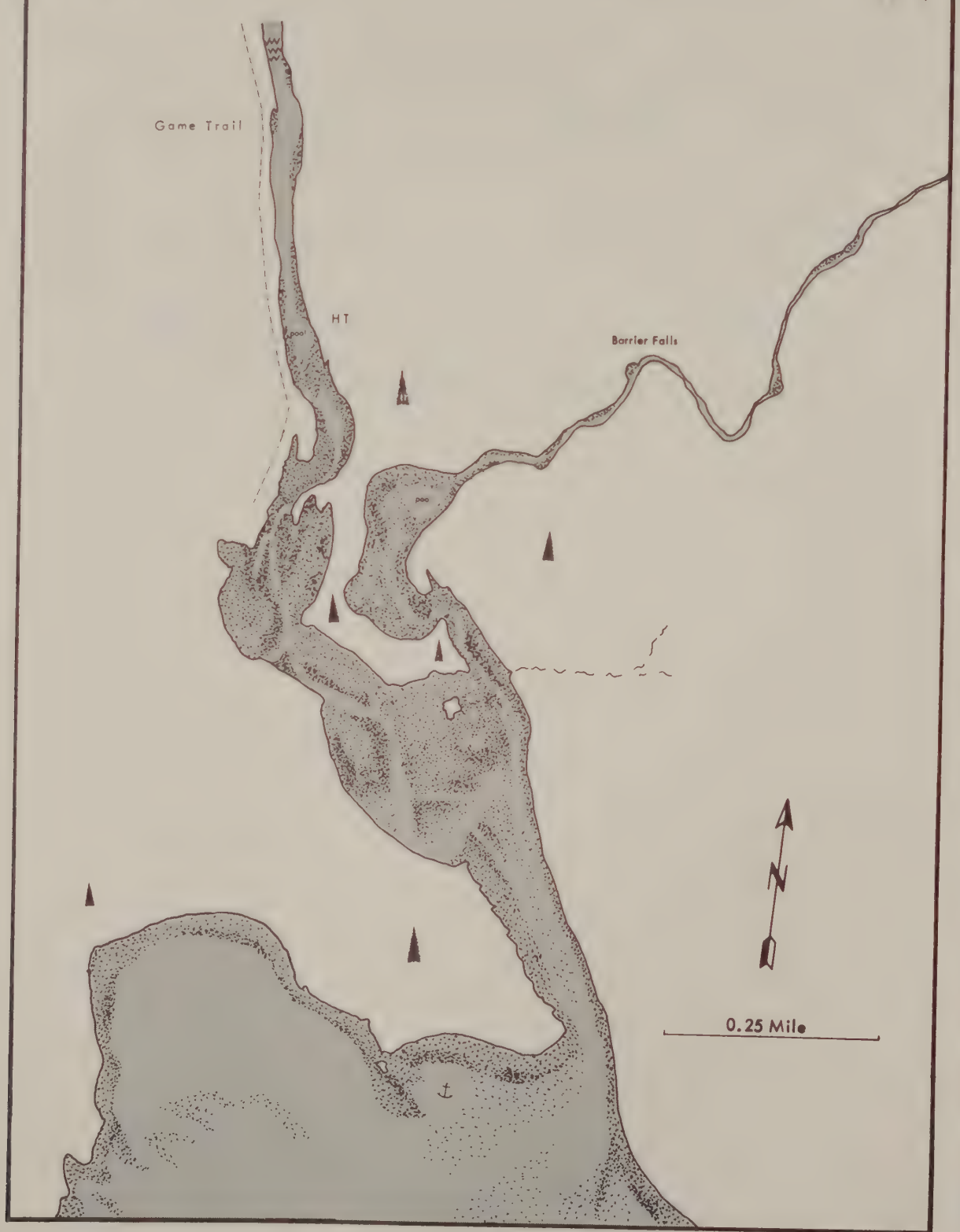
Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1955								
Aug 14	G	FWS						
Aug 21	A	FWS						No fish observed
Sept 14	G 0.7	FWS	3,000					1 jumper off mouth
Sept 18	G 0.5	ADF	1,500-2,000					
1956								
Aug 15	G 0.1	FWS						
Sept 1	G 0.3	FWS	450					No fish observed
Sept 11	G 0.7	FWS	500					
Sept 12	A	FWS	300					
Sept 18	G	FWS	10,000		300			

REGULATORY DISTRICT NO. 7

142-60

CRITTENDEN CREEK

WR 4



142-60 CRITTENDEN CREEK ADF STAT. No. WR 4
56°29.8' N. 132°16.6' W. Previous No. 5

WRANGELL, EASTERN PASSAGE, 1 mile NE. of Babbler Pt., N. of Mill Creek.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair to good.
STREAM TEMPERATURES Normal range. Observed temperatures: 59°F., 9/5/51; 57°F., 8/9/52; 50°F., 8/19/52; 51°F., 8/28/52; 57.5°F., 8/8/53; 53.5 F., 8/18/53; 53°F., 8/29/53.
VALLEY DESCRIPTION The lower part is of glacial origin; the upper is stream-cut. Valley walls rise up at a moderate rate from the streambed.
DRAINAGE 54 square miles (polar planimeter). Precipitation-fed. A few small lakes drain into the W. fork.
STREAM MOUTH IDENTIFICATION Enters Eastern Passage on the E. side of a small wooded peninsula. It is slightly constricted at the mouth but broadens inside the peninsula. There is flattened terrain on both sides of the mouth.
ANCHORAGE Wrangell is only a short distance away. Adequate dock space is available for moorage. Suitable anchorage is found just N. of the mouth and 100' to 150' off shore a bar is found S. of the mouth. Skiff can go upstream 2 miles.
TRAILS AND SURVEY ROUTES Game trails follow both banks. It is wadeable in places. A skiff can be taken up to the falls on a 20' tide.
AERIAL SURVEY NOTES Poor for aerial observation. Very good light conditions are needed for satisfactory observations.

INTERTIDAL ZONE

LENGTH 1.3 miles. AVERAGE WIDTH/DEPTH 150'/14".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Shale rock and silt.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two large pools at the head of the zone are utilized, the upper one directly below the first falls.
SPAWNING AREAS Fair spawning facilities in the upper one-third. Below this, the bottom is unsuitable for spawning. This is about the only area available to pinks.
GENERAL NOTES The intertidal zone, a wide grass bordered area, is navigable at any tide level.

UPSTREAM

LENGTH ACCESSIBLE 0.3 mile to falls AVERAGE WIDTH/DEPTH 100'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Shale gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS One-half mile upstream the first falls is a total block to pinks at most water levels. Pinks are also blocked at the second falls. Cohos can pass at most water levels.
TRIBUTARIES A stream enters from the E. at the upper end of the intertidal zone. A falls 200 yards upstream is 40' high and a total block to salmon.
SCHOOLING AREAS The pool below the falls is the only major schooling area.
SPAWNING AREAS The lower part of the upstream area has the most suitable spawning gravels. Large rock and boulders become more numerous upstream. A long stretch of excellent spawning ground is found above the falls.
GENERAL NOTES Reported to be a good salmon stream.

ADF STAT. No.
WR 4

142-60 CRITTENDEN CREEK Previous No. 5

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 13		FWS	2,900		68		200 cohos	
1951								
July 18	A 0.3	FRI	0	0	0	0		None observed
July 25	A							No salmon
Aug 12	A 0.3	FRI	3,200	0	1	0	180 cohos	
Aug 24	A 0.3	FRI	5,800	20	3	0		Half pinks spawning
Aug 25	A 2.0	FRI	5,000					
Sept 5	A 0.3	FRI	4,000	380	0	0	200 cohos	No visibility in lower stream
Sept 5	A 0.1	FRI	2,700	500	0	0		Exploratory beyond marker
Sept 20	G 1.0	FRI	4,000	2	25		50 cohos	
1952								
Aug 9	G 0.3	FRI	1,170	0	6	0		
Aug 19	G 0.3	FRI	1,145	0	6			Flooding stream
Aug 28	G 0.3	FRI	475					Flooding creek
1953								
Aug 5	A	FWS						Poor
Aug 8	A 0.3	FWS	155	0	1	0		Survey to falls
Aug 18	A 0.3	FWS	251	0	20	0	10 cohos	
Aug 28	A 0.3	FWS	190	1	7	0		
Sept 7	A 1.5	FWS	2	0	20	0	50 cohos	
1954								
July 20	G 1.0	FWS	1		5			
Sept 7	A 0.3	FRI						Few live chums
1955								
Aug 26	A 2.0	FWS	5	0	0	0		
Aug 31	G 2.0	FWS	350	7	10			
1956								
July 24	A 0.3	FWS						None observed
Aug 14	A 2.0	FWS	3,000-4,000					Several schools seen
Sept 4	A to falls	FWS	300					
Sept 9	G to falls	FWS	2,500					Left fork
Sept 9	G to falls	FWS	1,500					
Sept 12	A 0.5	FWS	2,000					
Sept 17	G 1.5	FWS	3,000				150 cohos	Both forks
1957								
July 30	A 5.0	FWS						No fish observed
Aug 9	A length	FWS			150			No spawning observed
1958								
Aug 8	A length	FWS	100		150			
Aug 11	G falls	FWS	2,750		100			
Aug 11	G 0.5	FWS	3,000					
Aug 22	A 2.0	FWS	4,000		100			
Aug 26	A 0.3	FWS	500					Few dead pinks
Aug 30	A length	FWS	2,500		50			
Sept 17	A 0.3	FWS						Few dead

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
Aug 10	A 1.0	FWS	650					Left-hand fork
Sept 17	G to falls	FWS	140					Right-hand fork
Sept 17	G to falls	FWS	30					
Sept 18	G	FWS	>200				150 cohos	
1963								
July 23	G falls	ADF			25-30			
July 23	G falls	ADF	100					200 in intertidal zone
Aug 23	G falls	ADF	300					

142-60 MILL CREEK ADF STAT. No. WR 5
56° 27.6' N. 132° 12.2' W. Previous No. 6

WRANGELL, EASTERN PASSAGE, N. side 5 miles above Point Madan.

MAJOR SPECIES Red. OTHER SPECIES Cutthroat trout.
ESCAPEMENT TIMING Middle Aug. -Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor in Mill Creek, fair in Virginia Lake and good in the inlet streams.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Flows through a short, broad valley between Virginia Lake and the Eastern Passage.
DRAINAGE 41 square miles (polar planimeter). Drains Virginia Lake, which is 2 miles long and 0.5 mile wide. The lake is fed by numerous small feeder streams.
STREAM MOUTH IDENTIFICATION Enters a small lagoon, wooded on the SE. side and not wooded on the NW. shore. The lagoon is entered by both Mill Creek and another tributary. Mill Creek enters W. of the tributary.
ANCHORAGE Temporary anchorage is found close in and NW. of the mill buildings.
TRAILS AND SURVEY ROUTES A good trail follows the right streambank up to the lake.
AERIAL SURVEY NOTES Cannot survey from the air.

INTERTIDAL ZONE

LENGTH 0.1 mile AVERAGE WIDTH/DEPTH 150'/36".
GRADIENT AND VELOCITIES Swift.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION Large falls.
SCHOOLING AREAS None.
SPAWNING AREAS
GENERAL NOTES No intertidal zone.

UPSTREAM

LENGTH ACCESSIBLE 0.3 mile to lake AVERAGE WIDTH/DEPTH 125'/48".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large gravel and boulders, large areas of bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 20' falls is found at the high tidemark. This falls is passable, but has to be negotiated under favorable conditions of tide and water level.
TRIBUTARIES A small stream enters near the mouth. The main inlet to Virginia Lake is a large, clear water stream with clean gravel offering considerable spawning area.
SCHOOLING AREAS Many large pools.
SPAWNING AREAS The stream is swift and deep above the falls and presents unfavorable conditions for spawning.
GENERAL NOTES A popular trout fishing area. Boats and shelter are available on the lake.

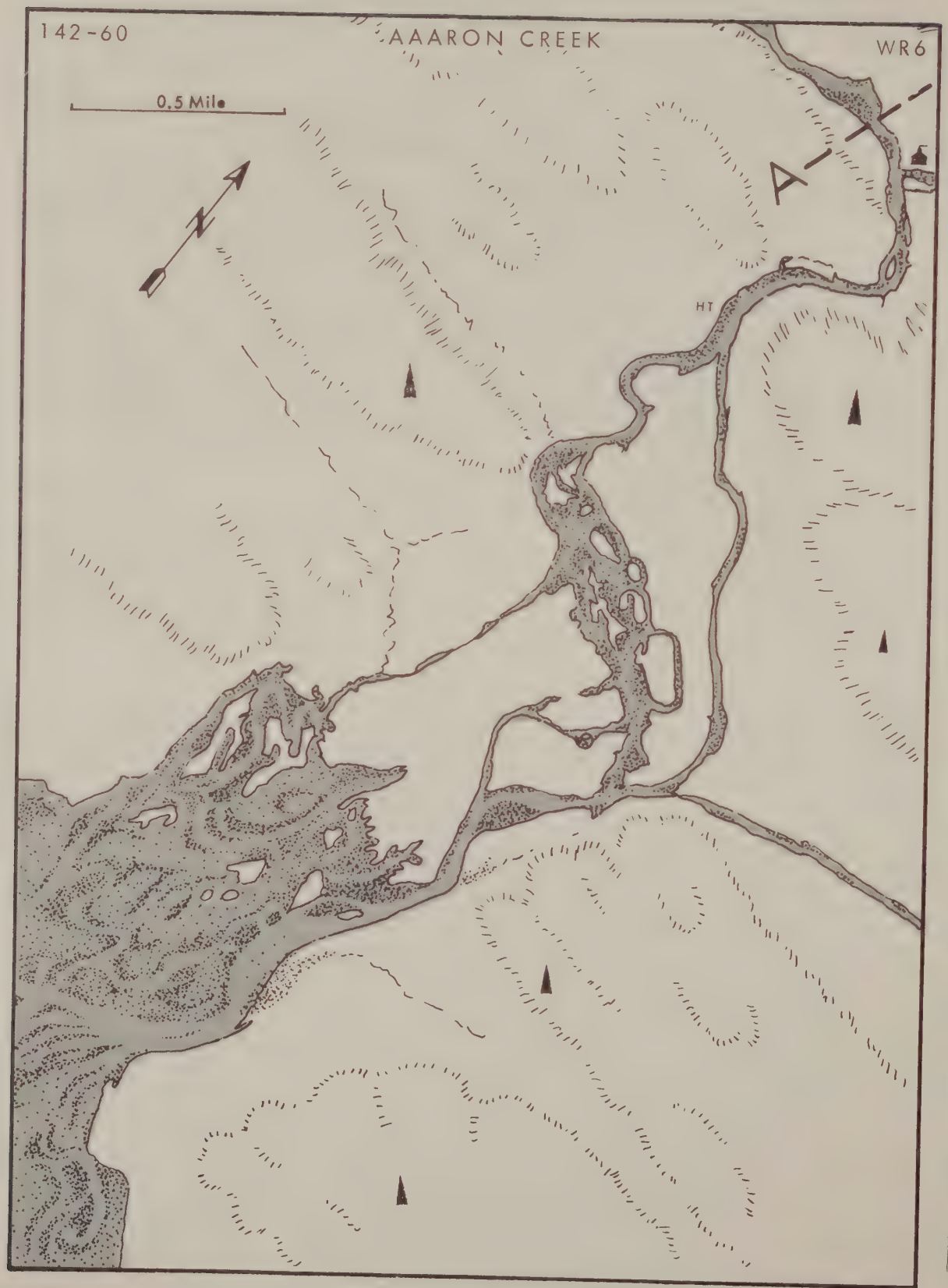
ADF STAT. No.
WR 5

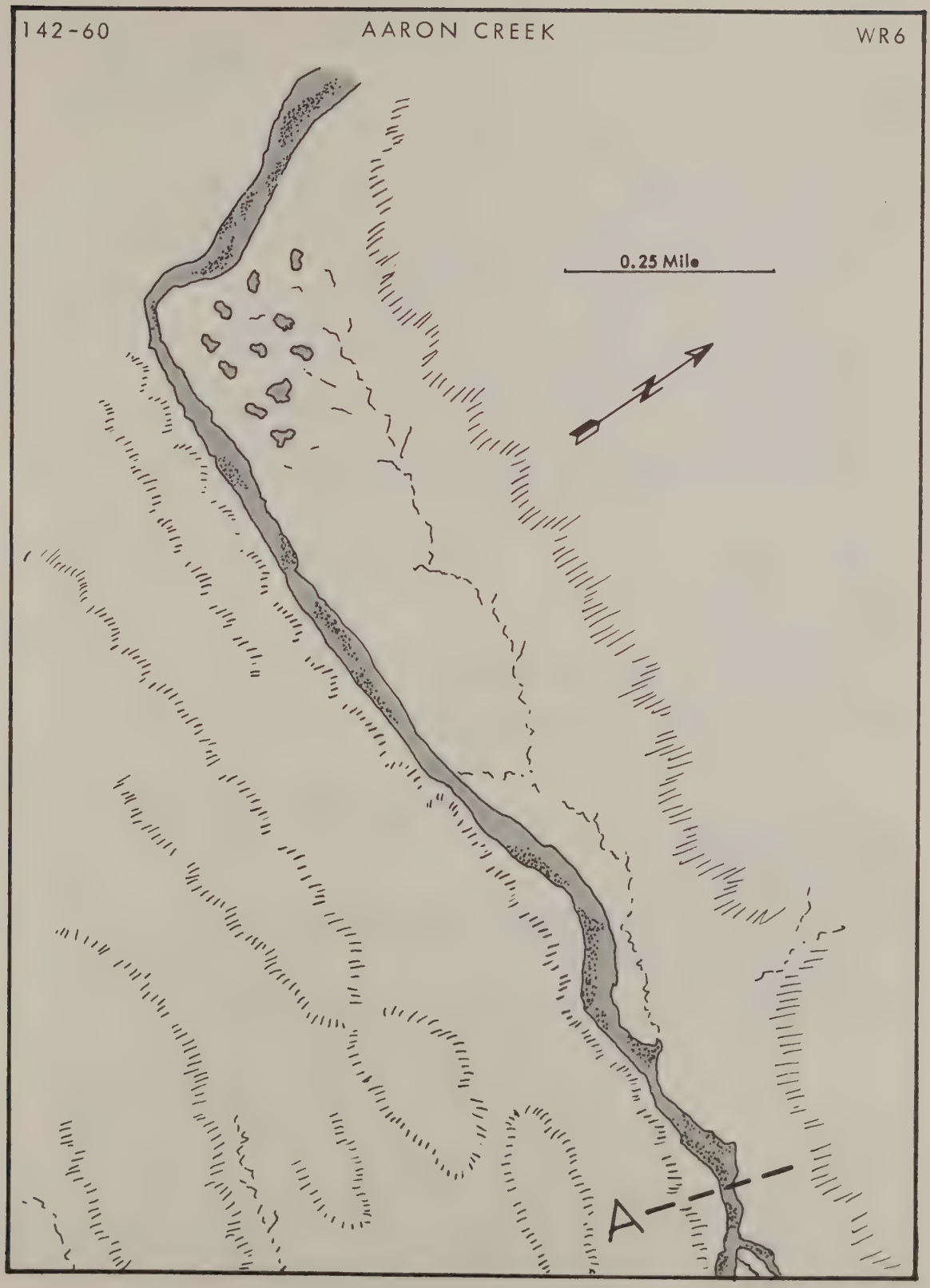
142-60 MILL CREEK Previous No. 6

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 5	A	FWS						No salmon observed
1956								
June 28	A mouth	ADF						15 jumps per minute
1957								
June 24	G mouth	FWS						No salmon observed
July 16	G mouth	FWS						Few reds jumping
July 25	G to falls	FWS						300 reds below falls
July 30	A 2.0	FWS					3,000 reds	
1958								
July 13	G mouth	FWS						No salmon observed
Aug 11	G mouth	FWS						No salmon observed
1959								
June 28	G 1.0	FWS						No salmon observed
Aug 4	A length	FWS						No salmon observed
1963								
July 29	A mouth	ADF						No salmon observed


142-60
AARON CREEK
WR6
0.5 Mile
N
A
A'
HT


0.25 Mile
A

142-60 AARON CREEK ADF STAT. No. WR 6
56°22.9' N. 131°56.4' W. Previous No. 8

WRANGELL, BLAKE CHANNEL, enters large bay E. of Neptune I.

MAJOR SPECIES Pink and chum. OTHER SPECIES Red, king.
ESCAPEMENT TIMING Early. July-Aug. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. Observed temperatures: 53.5°F., 8/8/51; 56.5°F., 8/31/51; 56°F., 9/2/51; 52°F., 7/21/52; 55°F., 7/29/52; 54.5°F., 8/6/52; 45°F., 8/15/52; 51.5°F., 7/24/52; 52°F., 7/31/53; 52°F., 8/10/53; 50°F., 8/18/53.
VALLEY DESCRIPTION Glacial origin. Flows through a rugged valley; mountainous in its upper part. The valley is about a mile wide. A long tideflat is found at the lower end.
DRAINAGE Precipitation-fed. Snowfields, both glacial and seasonal, surround the upper valley.
STREAM MOUTH IDENTIFICATION Enters through grass flat over 2 miles long. The mouth opens into the W. corner of the bay.
ANCHORAGE Bergs Bay offers best anchorage in passage. Enter on either side of the island in its mouth but give it a good berth. A reef extends 200 yards northward of the inner end of the island.
TRAILS AND SURVEY ROUTES Go up the main stream in a skiff as far as the tributary. Survey the tributary on foot. Trail extends from Bergs Bay head through timber to stream mouth.
AERIAL SURVEY NOTES Only the tributary is clear enough for aerial surveying.

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 120'/30".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud, sand, and very fine gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A deep area at the confluence of Aaron Creek and the tributary entering from the left at the head of the grass flats is the main schooling area.
SPAWNING AREAS None.
GENERAL NOTES The water is glacial colored and does not permit observation of the features in this area. Bottom very unstable in the entire intertidal area.

UPSTREAM

LENGTH ACCESSIBLE 7 miles. AVERAGE WIDTH/DEPTH 80'/2'-3'.
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine sand and gravel.
MARKER DISTANCE 1 mile.
MARKER IDENTIFICATION
BARRIERS None observed. Valley becomes steep.
TRIBUTARIES A clear water stream enters at the head of the grass flat from the E. This stream is like a slough at mouth and offers poor spawning facilities. Above this the current increases and good spawning facilities are found.
SPAWNING AREAS
GENERAL NOTES The glacial colored water does not permit observation of physical features.

ADF STAT. No.
WR 6
Previous No. 8

142-60

AARON CREEK

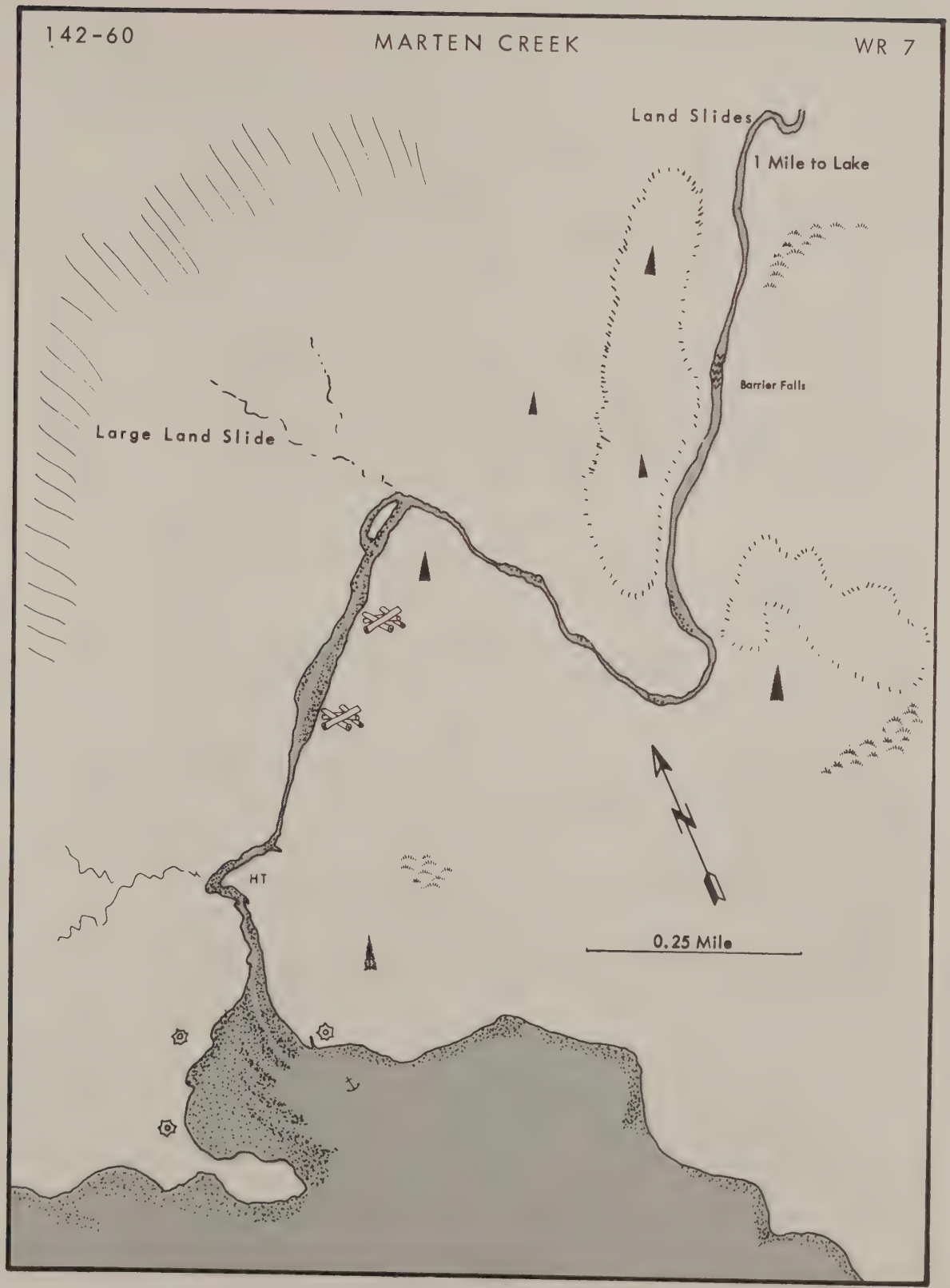
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 19	A	FRI						Many dead
Sept 2	A	FWS			1,722		50 cohos	
1951								
July 25	A	FRI	15,000					200 dead chums
Aug 8	A 0.3	FRI	10,000	20	210	75		
Aug 25	A 2.5	FRI	8,000					Numerous dead chums
Aug 31	A 0.3	FRI	300	230	1	10		Run is over
Sept 3	A 0.3	FRI	500					Numerous decayed dead
1952								
July 21	A 0.5	FRI	35	0	200	4		
July 29	A 0.5	FRI	115	0	382	25		
Aug 6	A 0.5	FRI	339	4	191	201	10 kings	
Aug 12	A 4.0	FWS-ADF						Many dead. Run over
Aug 15	A 0.5	FRI	344	112	23	180	20 kings	Spawning about over
1953								
July 24	A 0.5	FRI	562	1,195	20			
July 24	A 0.5	FWS	540		730			
July 31	G 0.5	FWS	1,650		1,150	177		
July 31	A 0.5	FRI	1,933	0	1,536	617		
Aug 4	A 5.0	FRI				200		Few live chums
Aug 10	G 0.5	FWS	640		340	60		
Aug 18	G 0.7	FWS	300		100			
1954								
July 15		FWS			600			
Aug 3		FWS						47,000 pinks and chums
Aug 5	A 0.5	FRI	600	0	2,000	0		
Aug 7	marker	FRI	500		5,000	6,000		
Aug 14	marker	FRI	100					Many dead chums
Aug 15	A 0.5	FRI	100	0	0			Many dead chums
Aug 26	A 0.5	FWS						None observed
Sept 7	A 0.5	FWS						None observed
1955								
July 29	A 0.5	FRI	1,000	2,000				
Aug 1	A 0.5	FRI	1,000	3,500				
Aug 15	A 0.5	FRI	500					Peak over
Aug 19	A 0.5	FWS	400					Spawning
1956								
July 17	G 0.3	FWS			2			
July 23	A 1.0	FWS			250			
July 24	A mkr	FRI	200		400			
July 28	A 2.0	FRI			6,000			
Aug 4	A mkr	FRI	300		700			
Sept 5	G 1.5	FWS	7,500		100			
Sept12	A 4.0	FWS					12 other species	

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
July 29	A mark	FRI	2,000		6,000			
July 30	A to falls	FWS						15,000 salmon
Aug 9	A 1.5	FWS	1,000		1,000			
Aug 9	A 5.0	FWS	20,000		7,000			
Aug 18	A 5.0	FWS	20,000		7,000			
1958								
July 24	A 3.0	FWS	500		3,000			
Aug 8	A 3.0	FWS	4,000		3,000			
Aug 13	A 3.0	FWS	1,800					
Aug 26	A	FWS						No fish observed
Aug 27	A length	FWS	175					
1959								
July 28	A 3.5	FWS	1,000		2,000			Many dead chums
Aug 4	A 2.0	FWS						10,000 mixed fish, 3,000 dead
Aug 10	A 2.0	FWS	5,000		2,000			
Aug 12	A 3.2	FWS						Few live salmon, many dead chums
1960								
July 8	A length	ADF	0		200			
July 20	G	ADF	3,000		5,000			
July 28	A length							No fish observed
1961								
July 6	A length	ADF						Jumping off mouth
July 21	A length	ADF	1,500		600			Chum spawning
July 27	A length	ADF	2,000		1,300			Fish spawning
Aug 2	A length	ADF	5,000		2,000		many	Pink in schools
Aug 18	A length	ADF						Almost all fish dead
1962								
July 6	A length	ADF			350			
July 16	A mouth	ADF						No fish observed
July 19	A mouth	ADF						2,000 at mouth
July 24	G 0.2	ADF			300			
1963								
July 24	A 0.2	ADF						No fish observed
July 29	A length	ADF			4,500			Spawning scattered; poor seeding


Land Slides
1 Mile to Lake
Barrier Falls
Large Land Slide
HT
N
0.25 Mile

142-60 MARTEN CREEK ADF STAT. No. WR 7
56°14' N. 131°53' W. Previous No. 10

WRANGELL, BRADFIELD CANAL, 1 mile from entrance on N. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. Observed temperatures: 51.5°F., 7/20/50; 63.5°F., 9/7/51; 62.5°F., 8/14/52; 57.5°F., 8/26/52; 55°F., 9/3/52; 58°F., 8/16/53; 58°F., 8/29/53; 57°F., 9/6/53.
VALLEY DESCRIPTION Stream-cut. Runs W. and S. Broadens in the area around the lakes. Numerous tributary valleys. Heavily wooded near the mouth.
DRAINAGE 22 square miles (polar planimeter). Drains three lakes: Clay Lake with an area of 50 acres; Martha Lake with an area of 440 acres and Upper Martin Lake with an area of 80 acres.
STREAM MOUTH IDENTIFICATION Enters through a small grass flat. W. of the mouth there is a steep bank. A wooded peninsula lies S. of the mouth and blocks its view from a southerly direction.
ANCHORAGE Good temporary anchorage just off the creek mouth.
TRAILS AND SURVEY ROUTES Travel up the stream is difficult if the water is higher than normal. The left bank is reportedly most suitable for travel.
AERIAL SURVEY NOTES The lower portion of this stream is not suitable for aerial survey.

INTERTIDAL ZONE

LENGTH 500' AVERAGE WIDTH/DEPTH 100'/2'.
GRADIENT AND VELOCITIES Swift.
BOTTOM Broken rock in upper; sand bottom in lower.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A large pool at the high tidemark offers facilities for schooling salmon.
SPAWNING AREAS Some spawning occurs in the upper one-fourth.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.5 miles to lake. AVERAGE WIDTH/DEPTH 40'-60'/16"-30".
GRADIENT AND VELOCITIES Swift.
BOTTOM Broken rock and large boulders below falls; sand and gravel above.
MARKER DISTANCE 0.8 mile.
MARKER IDENTIFICATION
BARRIERS A 50' falls 1 mile upstream is a total block.
TRIBUTARIES Numerous small tributaries enter the lakes. Spawning has not been reported to take place in any of them.
SCHOOLING AREAS Pools are found throughout the upstream area.
SPAWNING AREAS Two large pool areas above the first rapids are the best spawning areas available. A little spawning takes place above the pools.
GENERAL NOTES There is evidence of logging operations a short distance above the mouth.

ADF STAT. No.
WR 7
142-60 MARTEN CREEK Previous No. 10

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 10	A 0.1	FRI	0	0	0	0		No fish in stream
1950								
July 20	A 0.5	FRI	0	0	0	0		No fish in stream
Aug 16	A 0.5	FRI					Few reds	
Sept 6		FWS	10,390					
1951								
July 25	A	FRI						None observed
Aug 23	0.5	FWS	10,000		300			
Sept 7	A 0.7	FRI	5,850	1,666	10	15	3 reds	Spawning
1952								
Aug 14	A 0.7	FRI	955			38		
Aug 26	A 0.7	FRI	1,275	31	44	3		
Sept 3	A 0.7	FRI	1,060	63	61	26		
Sept 12	A 0.7	FRI	357	259	39	26		
1953								
July 20	A	FWS						No salmon observed
July 23	A 0.5	FRI			200			Chum spawning
Aug 16	A 0.7	FRI	648	1	67			
Aug 29	A 0.7	FRI	2,452	19	28	3		
Sept 6	A 0.7	FRI	1,409	239	40	28	8 cohos, 4 reds	
1954								
Aug 6		FWS						Many pinks
1955								
July 8	G 0.2	FWS						No fish in stream
July 31	G 0.5	FWS						No sign of salmon
Aug 12	A 0.7	FWS						Very few salmon seen
1956								
July 28	length	FWS						No fish observed
Aug 4	G 0.5	FWS	75		100			
Aug 9	G 0.5	FWS	75		100			
Sept 12	A	FWS						300 other species
1957								
Aug 2	G 0.7	FWS	100		250			
1958								
Aug 7	G 1.0	FWS	50					
Aug 8	A length	FWS	1,500					
Aug 13	A length	FWS	1,250					
Aug 22	A length	FWS	900		1,250			
Aug 22	G 1.0	FWS	10,000		2,000			
Aug 26	G 1.0	FWS	30,000		500			
Aug 30	G falls	FWS	3,900		36			
1959								
July 10	G	FWS						2,000 pinks and chums in intertidal zone
July 12	G	FWS						No fish observed
Aug 4	A to falls	FWS						100 unknown species

ADF STAT. No.
WR 7

142-60 MARTEN CREEK - Continued Previous No. 10

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
Aug 19	A 0.7	FWS						No fish observed
Oct 5	G 0.7	FWS	135	10				
1960								
July 27	G 0.3	ADF	85		4			
Aug 4	A 0.8	ADF	400					
Aug 13	G 0.8	ADF	550		5			25 chums and 75 pinks at mouth
1961								
July 27	A 0.8	ADF						No fish observed
1962								
July 6	A length	ADF						No fish observed
Aug 28	A length	ADF	400					
1963								
July 23	G 0.2	ADF	35		0			
July 24	A mouth	ADF						Windy and rough flying
July 29	A mouth	ADF						No fish observed

142-60 FRANKS CREEK WR 8

142-60 FRANK'S CREEK ADF STAT. No. WR 8
56°12.9' N. 131°43.5' W. Previous No. 11

WRANGELL, BRADFIELD CANAL, 8 miles from entrance on N. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent, but limited.
STREAM TEMPERATURES Cold range. Observed temperatures: 50°F., 8/1/51; 50°F., 8/13/51; 49.5°F., 8/25/51; 50.5°F., 9/1/51; 51.5°F., 9/8/51; 49°F., 9/16/51; 46°F., 7/27/52; 47°F., 7/31/52; 51°F., 8/8/52; 48.5°F., 8/16/52; 50.5°F., 8/24/52; 48.5°F., 7/30/53; 50.5°F., 8/7/53; 50°F., 8/16/53; 48°F., 8/26/53; 49°F., 9/5/53.
VALLEY DESCRIPTION A short stream-cut valley. The valley wall rises sharply W. of the stream. The E. side of the stream is flat for a short distance, then rises sharply.
DRAINAGE 6.2 square miles (polar planimeter). Precipitation-fed. A few small ponds are scattered throughout the drainage system.
STREAM MOUTH IDENTIFICATION A small tideflat. The stream meanders through the upper part of the intertidal zone.
ANCHORAGE Suitable anchorage in all except severe storms is found 100 yards out from the old trap pilings.
TRAILS AND SURVEY ROUTES At high tide a skiff may be taken upstream for several hundred yards. The stream is easily waded except at times of high water. A game trail follows the W. bank.
AERIAL SURVEY NOTES Heavy brush along the banks obstructs aerial visibility.

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH 30'-40'/6"-10".
GRADIENT AND VELOCITIES
BOTTOM Fine gravel with boulder areas.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Good schooling areas throughout.
SPAWNING AREAS Spawning takes place in the upper half.
GENERAL NOTES Wadeable at low tide.

UPSTREAM

LENGTH ACCESSIBLE 5 miles. AVERAGE WIDTH/DEPTH 30'/12"-18".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Gravel predominant; some small boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None reported.
SCHOOLING AREAS Good resting pools are interspersed between riffle areas.
SPAWNING AREAS Numerous good spawning riffles.
GENERAL NOTES Brown bear are present on this and most other mainland streams.

ADF STAT. No.
WR 8

142-60 FRANK'S CREEK Previous No. 11

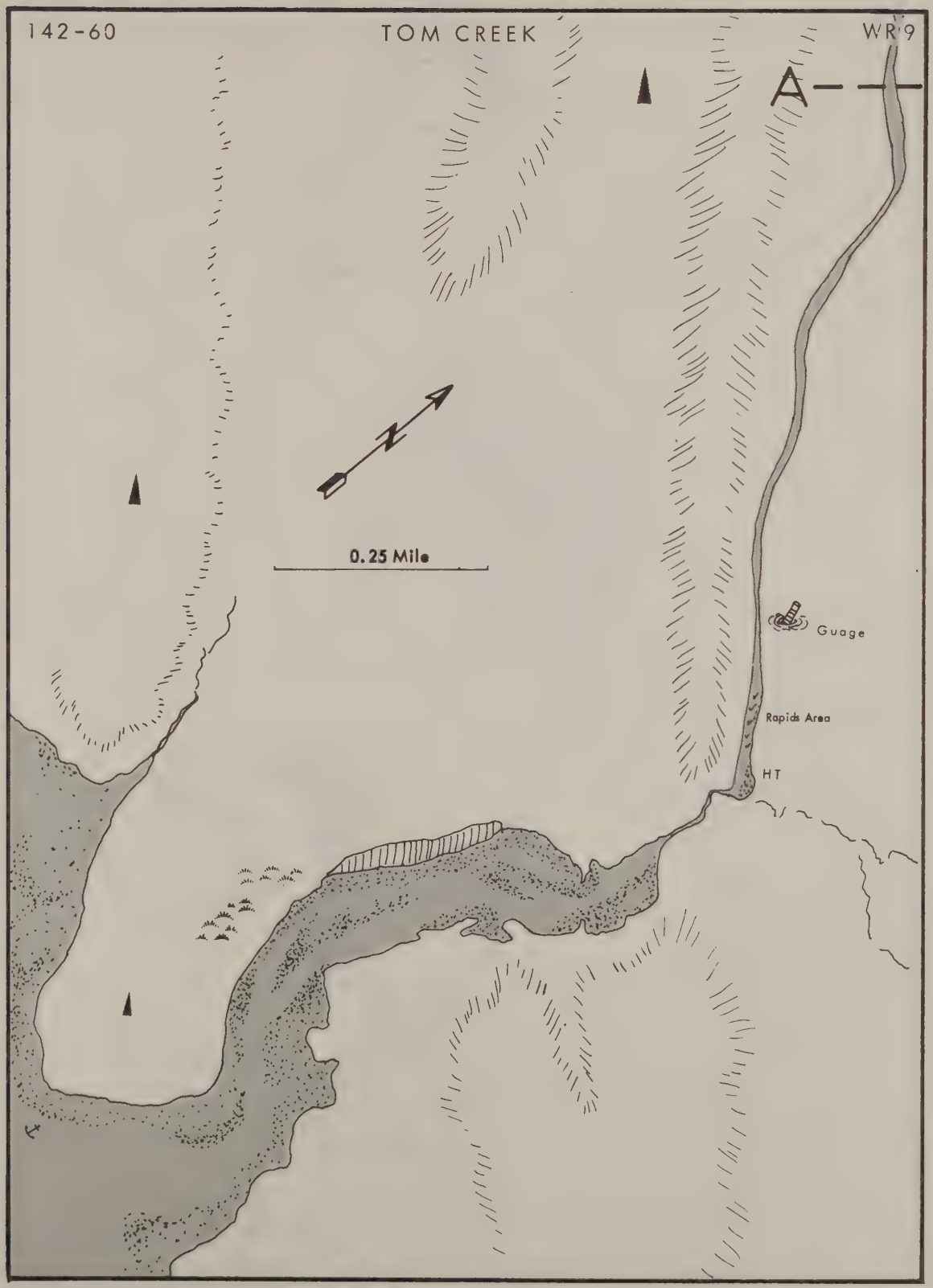
ESCAPEMENT RECORD

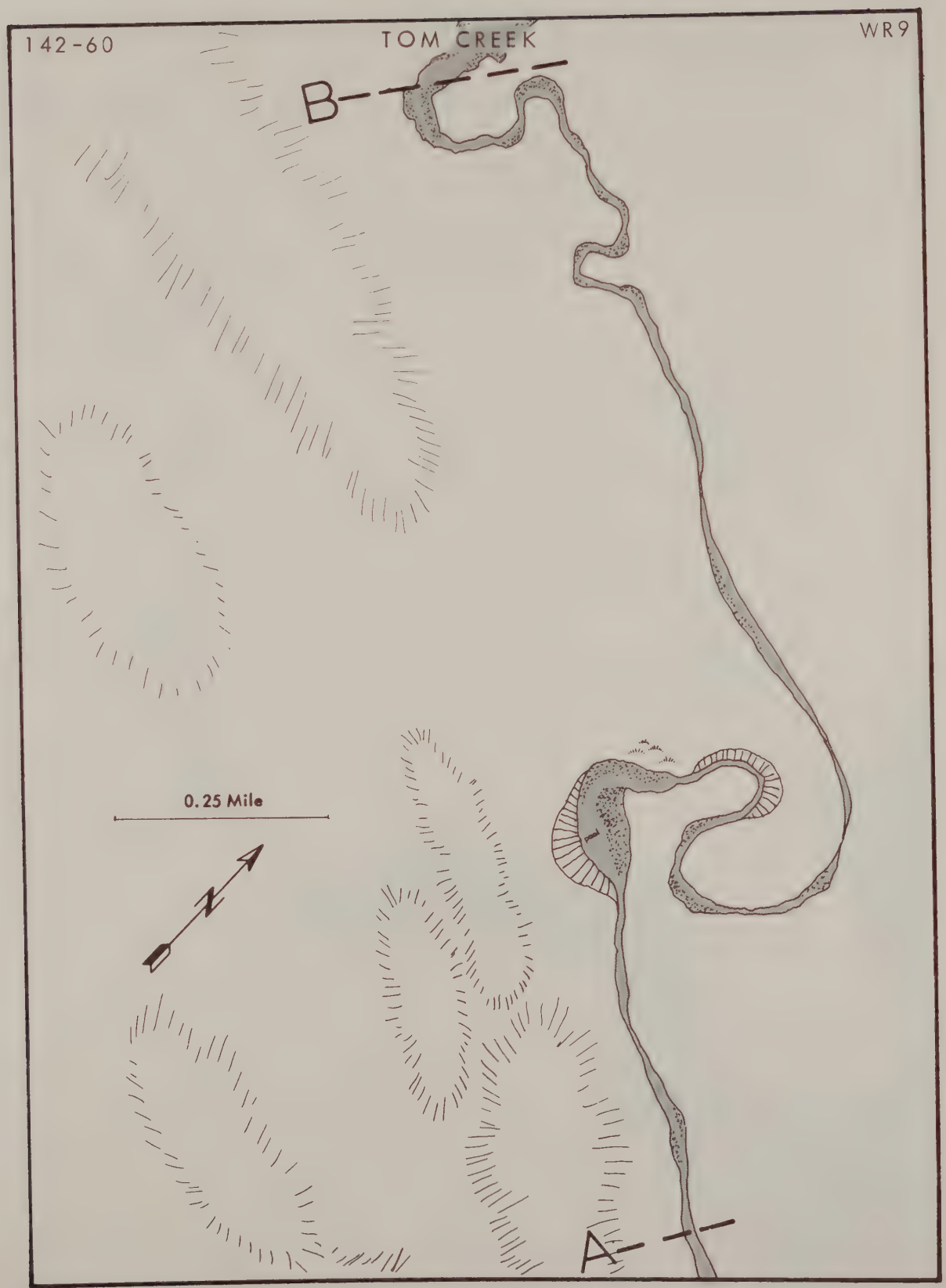
[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 16	A							Too small for aerial survey
Sept 6	A	FWS	2,900		55			
1951								
July 12	A 0.5	FRI	0	0	0	0		
Aug 1	A 0.5	FRI	1,083	6	18	1		Schooled. Little spawning
Aug 13	A 0.5	FRI	26,200	165	113	9		
Aug 22	A 0.7	FWS	15,000	363	2			
Aug 25	A 0.5	FRI	16,800	785	8	18		One-fourth spawning
Sept 1	A 0.5	FRI	14,400	1,250	0	0		
Sept 1	A 2.5	FRI	17,300	6,800	0	150		Exploratory beyond marker
1952								
July 22	A 0.5	FRI	0	0	2	0		
July 31	A 0.5	FRI	559	0	47	2		
Aug 8	A 0.5	FRI	1,624	21	172	10		
Aug 16	A 0.5	FRI	1,205	250	83	91		Spawning past peak
Aug 24	A 0.5	FRI	790	321	3			
1953								
July 23	A 0.5	FRI	27	0	12	0		
July 30	A 0.5	FRI	61	0	15	0		2 pinks, 47 chums next quarter mile
Aug 7	A 0.7	FRI	594	1	73	5		
Aug 16	A 0.7	FRI	968	12	43	15		
Aug 26	A 0.7	FRI	1,720	36	11	6		
Sept 5	A 0.7	FRI	671	228	4	26		
1954								
Aug 14	marker	FRI	100					
Aug 15	A 0.5	FRI	0	0	0	0		Less than 100 pinks
1955								
July 10	G 0.5	FWS	0	0	0	0		
July 26	G 0.5	FWS	0	0	7	0		
Aug 1	G 0.5	FRI	0	0	0	0		Good spawning area
Aug 9	G 0.5	FWS	0	0	35			
Aug 10	G 1.0	FWS	0	0	375	0		
Aug 12	A 0.7	FWS	0	0	0	0		Visibility poor, water high
Aug 25	G 1.0	FWS	0	8	0	0		Very few salmon present
1956								
Aug 4	length	FWS	12		0			
Aug 4	G 1.0	FWS	500		300			
Aug 11	G 1.0	FWS	100					
Sept 7	G 0.7	FWS	200					
1957								
July 30	A 5.0	FWS						500 seen
Aug 18	A length	FWS						1,500 salmon

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1958								
July 24	A length	FWS	3,000		2,000		2,500 kings	
Aug 8	A length	FWS	400		200			
Aug 13	A length	FWS	400		100			
Aug 15	G 1.0	FWS			200			
Aug 27	A length	FWS	1,000		50			
1959								
July 6	G	FWS						500 pinks and chums in intertidal zone
July 14	G 1.0	FWS						No fish observed
July 28	A 2.0	FWS						No fish observed
Aug 4	A 0.5	FWS						No fish observed
Aug 10	A 1.0	FWS			300			
Aug 19	G 0.7	FWS	100					100 dead
1960								
Aug 13	G 2.5	ADF	125		14			
1961								
	Not surveyed							
1962								
July 6	A mouth	ADF						300-400 at mouth
1963								
July 24	G 0.5	ADF						No fish observed
July 24	A mouth	ADF						No fish observed; flying rough


142-60
TOM CREEK
WR 9
A
0.25 Mile
Guage
Rapids Area
HT


142-60
TOM CREEK
WR9
B
0.25 Mile
N
A

B
0.25 Mile
N

142-60 TOM CREEK ADF STAT. No. WR 9
56°12.7' N 131°40.8' W. Previous No. 12

WRANGELL, BRADFIELD CANAL, 9.5 miles from entrance on N. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red, king.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair in the lower 2 miles, excellent in the mile below the lake and in the three-fourths mile above the lake.
STREAM TEMPERATURES Normal range. Observed temperatures: 55.5°F., 8/7/51; 54.5°F., 8/17/51; 56.5°F., 8/18/51; 58°F., 8/30/51; 53°F., 7/30/52; 58°F., 8/11/52; 51.5°F., 8/27/52; 48°F., 7/22/53; 53°F., 8/1/53; 59°F., 8/7/53; 52°F., 8/17/53; 52°F., 8/24/53.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 21 square miles (polar planimeter). Drains two small lakes: Tom Lake, 3 miles upstream, and Campbell Lake, 4.5 miles upstream.
STREAM MOUTH IDENTIFICATION Enters the canal 3 miles W. of the Harding River Lies at the head of a lagoon, about 0.5 mile long and 100 yards wide.
ANCHORAGE Suitable anchorages are found on either side of the mouth, 100 yards off shore.
TRAILS AND SURVEY ROUTES At flood tide a skiff can be taken to the foot of the rapids, about 200 yards, and then run up to the lake. Travel is difficult along the banks.
AERIAL SURVEY NOTES Extensive areas of moss-covered rocks make detection of fish from the air difficult.

INTERTIDAL ZONE

LENGTH 0.8 mile. AVERAGE WIDTH/DEPTH 250'/18".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Fine gravel and a few large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION The lower end of the rapids.
SCHOOLING AREAS The lower two-thirds is made up of deep pools.
SPAWNING AREAS Does not appear to be utilized for spawning to any significant degree. Some spawning occurs in a limited area in the upper one-third.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.2 miles to lake. AVERAGE WIDTH/DEPTH 100'/2'-3'.
GRADIENT AND VELOCITIES Gentle.
BOTTOM Fine to moderate gravel with sand and silt in sluggish area.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 40' falls three-fourths mile above the first lake blocks the passage of salmon.
TRIBUTARIES Two tributaries enter Tom Lake. The largest on the S.E. side of the lake has good spawning gravel.
SCHOOLING AREAS Numerous pools are scattered throughout the stream's length, but are most frequent in the second mile.
SPAWNING AREAS Spawning areas are limited in the lower 2 miles, but are excellent in the riffle just below the lake and in the area below the falls.
GENERAL NOTES The stream follows a meandering course.

142-60

TOM CREEK

ADF STAT. No. WR 9
Previous No. 12

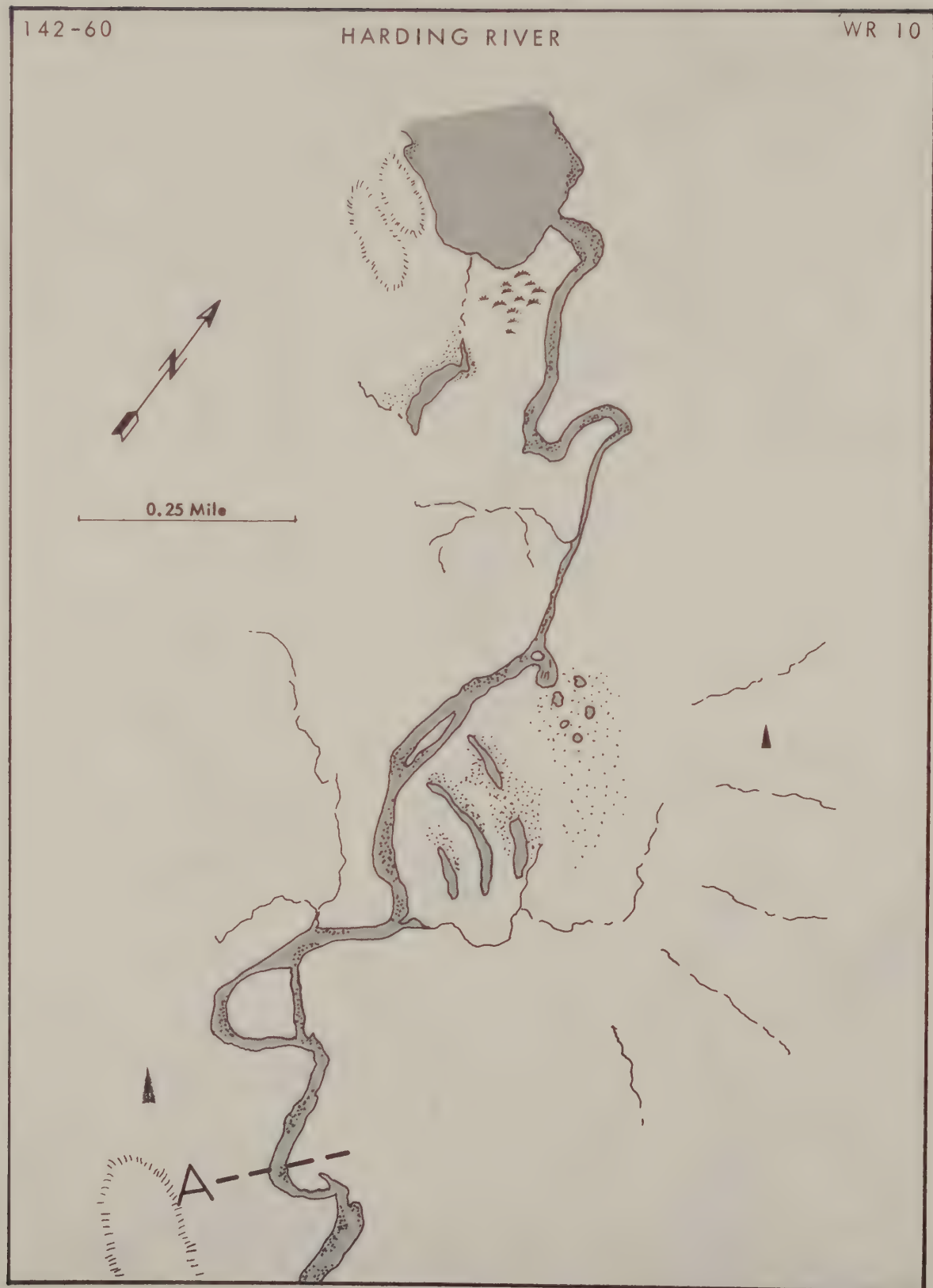
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 8	A	FWS	10,255		770			
Aug 16	A 3.5	FRI						Fish throughout
1951								
July 13	A 3.0	FRI	285		267			
July 25	A 3.0	FRI						10,000 salmon. Count difficult
July 27	A 3.0	FRI	24,870		2,670			15,000 pinks schooled above lake
Aug 7	A 3.0	FRI	43,896	540	2,330	930	27 reds	Pink spawning
Aug 18	A 3.0	FRI	49,100	3,480	297	1,240	17 reds	Pink spawning
Aug 23	A 0.6	FWS	2,500	500	20	10		Exploratory to falls above lake. 5,600 live and 180 dead pinks
Aug 30	A 3.0	FRI	19,000	17,100	80	400	3 cohos, 30 reds, 45 kings	
Sept 13	A 3.0	FRI	4,600	200	25	3	700 cohos, 21 reds, 20 kings	
1952								
July 30	A 3.0	FRI	3,575	0	2,135	12	25 kings, 10 reds	
Aug 11	A 3.0	FRI	9,270	285	2,129	591	15 cohos, 146 reds, 91 kings	
Aug 12	A 3.0	FRI						Poor showing on delta at lake inlet
Aug 27	A 3.0	FRI	2,205	618	105	393	25 cohos, 180 reds, 36 kings, 10 dead reds, 5 dead kings	
1953								
July 20	A 3.0	FWS						No fish observed
July 22	A 3.0	FWS	1,000	12,000				
July 22	A 4.0	FRI	1,260	0	3,701	5	3 reds	Survey to lake same as 1951 and 1952
Aug 1	A 4.0	FRI	10,230	0	9,040	521	13 reds, 53 kings	
Aug 7	A 4.0	FRI	13,420	50	8,040	3,250		
Aug 17	A 4.0	FRI	8,168	753	1,960	3,066	255 reds	
Aug 24	A 4.0	FRI	3,872	1,738	600	3,329	75 cohos, 309 reds, 6 dead reds, 107 kings	
1954								
Aug 5		FWS			100			
Aug 5	A 3.0	FRI	500	0	3,000			Some dead chums
Aug 15	A 3.0	FRI	1,700		3,000			Some dead pinks and chums
Sept 10	A 3.0	FRI	600	0	0			Few dead chums
1955								
July 10	G 0.5	FWS	0	0	30			
July 11	G 0.5	FWS	0	0	10	0		
July 23	A 3.0	FRI	0	0	300	0		Jumps in bay
July 26	G 0.5	FWS	0	0	0		2 kings	
Aug 1	A 3.0	FRI	1,100	0	800	0		
Aug 5	G 0.5	FWS						Few live pinks, 22 chums off mouth
Aug 15	A 3.0							None observed off mouth
Aug 19	A 3.0	FWS						Salmon spawning
Aug 19	A 3.0	FRI	700					Spawning
Aug 26	A 3.0	FWS	500		50			Spawning

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1956								
July 22	A 3.0	FRI	0	0	400		Few kings	
July 26	G 0.7	FWS	200		500			
July 28	length	FWS			1,000			
July 28	A	FWS			1,000			
July 29	A 3.0	FRI	400	0	1,500			3,000 chums at mouth
July 31	A	FWS			2,000			
Aug 4	A 3.0	FRI	300	0	900	0		Pink fresh
Aug 17	A 3.0	FRI	1,500	0	600			300 dead chums
Aug 24	A 3.0	FRI	200	0	0	0		Water high
1957								
Aug 4	A 3.0	FRI	3,000	0	5,000	200		Pink in lower stream
Aug 9	A to lake	FWS	200		1,000			
Aug 16	A 3.0	FRI	2,000		500			Some dead pinks and chums
1958								
July 17	A 3.0	FWS	200					
July 24	A length	FWS			1,000			
Aug 1	G 2.0	FRI	200		100			
Aug 4	G 1.0	FWS	200		50			
Aug 8	A length	FWS	1,000		2,500			
Aug 11	A mark	FWS	2,000		2,000			
Aug 11	A 3.0	FRI	2,000	0	2,000	200		
Aug 13	A length	FWS	500		2,000			
Aug 22	A length	FWS	500		2,000			
Aug 25	A 3.0	FWS	200					Few chums. Old fish spawning
Aug 31	G 2.0	FRI	750		20			
Sept 8	G 1.5	FWS	50					
1959								
July 9	G	FWS						300 pinks and chums in tidal zone
July 22	G 1.5	FWS	1,000		1,000			
July 28	A 4.0	FWS	100		200		50 reds	Several kings
Aug 4	A 3.0	FWS			3,000			
Aug 10	A length	FWS	200		2,500			
Aug 12	A 4.5	ADF	100		100			50 reds in lake
Oct 6	G 0.5	FWS						No fish observed
1960								
July 8	A length	ADF						No fish observed
July 18	A length	ADF						No fish observed
Aug 4	A length	ADF			9,000			Fish in lower stream
1961								
July 17	G	ADF					1 king	300 at mouth
July 23	A	ADF						100 mixed fish at mouth
July 27	A length	ADF	300		few			
Aug 8	A length	ADF	1,500		1,000			Many dead fish
Aug 18	A length	ADF	1,200					All spawning
1962								
July 25	A lake	ADF	700				25 reds	Fish in lake and stream
Aug 28	A mouth	ADF						No fish observed
1963								
July 24	A 0.2	ADF	4		1			
July 24	G 0.5	ADF	600					
July 29	A lake	ADF	20,000					Mixed in upper stream
Aug 5	skiff to lake	ADF	14,000		1,000			Above lake in inlet stream

142-60
HARDING RIVER
WR 10
A
N
0.25 Mile
Gaging
Station
HT


N
0.25 Mile
A

ADF STAT. No.
WR 10

142-60 HARDING RIVER Previous No. 13
56° 12.3' N. 131° 37.3' W.

WRANGELL, BRADFIELD CANAL, 6.3 miles from head on N. shore.

MAJOR SPECIES Chum. OTHER SPECIES Pink, king, coho.
ESCAPEMENT TIMING Early. July-Aug. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Glacial and stream-cut.
DRAINAGE 97.2 square miles (polar planimeter). Drains Fall Lake 5 miles upstream. The river has its headwaters near some small glaciers about 20 miles above the lake
STREAM MOUTH IDENTIFICATION It enters Bradfield Canal opposite the Eagle River and Duck I.
ANCHORAGE Good anchorage W. of Duck I. Good float W. of river mouth.
TRAILS AND SURVEY ROUTES Small light skiffs can be run to falls. The U.S.G.S. has blazed a trail up the right bank as far as the thermograph building. The stream is wadeable just above this point.
AERIAL SURVEY NOTES Visibility is not too good because of the glacial water.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 200'/3".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders with sand and mud in the lower part.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A deep area about halfway up the intertidal zone is utilized. Large pool at head of tidewater.
SPAWNING AREAS Some spawning might take place near the head of the zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles to falls. AVERAGE WIDTH/DEPTH 150'/20".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Suspected block just below lakes.
TRIBUTARIES Numerous tributaries enter from the W. side. No reports of spawning in any tributary stream.
SCHOOLING AREAS Pools are scattered throughout the stream's length. A large, deep hole at the U.S.G.S. thermograph building is heavily utilized.
SPAWNING AREAS Spawning area is good from thermograph building station to just below falls. Spawning takes place in all riffle areas.
GENERAL NOTES Very good population of brown bear.

ADF STAT. No.
WR 10
142-60 HARDING RIVER Previous No. 13

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 10	G 2.0	FRI						King and chum breeding
Aug 12	G 2.0	FWS						Good showing of chum
1950								
Aug 9	A	FWS	7,500		230			
Aug 16	A 6.0	FRI						Good showing. Many dead
Aug 16	G 0.5	FRI	107	1	991	283		
1951								
July 25	A 6.0	FRI						20,000 salmon
1952								
Aug 7	5.0	FWS			35,000			
Aug 12	A 6.0	FWS-ADF						Fair showing, mostly chums
1953								
July 20	A 6.0	FWS			40,000			
1954								
Aug 1	G 0.5	FWS				30		Many live chums
1955								
July 12	G 2.0	FWS						No jumps observed
July 23	A 6.0	FRI	0	0	5,000	0		
July 25	A 1.0	FWS			5			1 king at mouth
Aug 1	A 6.0	FRI	2,000	0	14,000	0		
Aug 19	A 6.0	FRI						Water high and colored pink spawning
1956								
July 22	A 6.0	FRI	0	0			Few kings	
July 28	length	FWS			2,500			
July 29	A 6.0	FRI	1,000	0	11,000			500 pinks at mouth
July 31	A length	ADF	15,000					
Aug 1	A	FWS	15,000					
Aug 4	A 6.0	FRI			5,000			Several schools at mouth
Aug 9	A	FRI			10,000			
Aug 11	G 1.5	FWS	600					
Aug 17	A 6.0	FRI			2,500			Some pinks. None at mouth
Aug 24	A 6.0	FRI						Few pinks observed
1957								
July 30	A	FRI	1,000		20,000			
Aug 4	A 6.0	FRI	3,000	0	40,000			Pink in lower stream
Aug 7	A 9.0	FWS			70,000			
Aug 7	G to falls	FWS			100,000			
Aug 9	A to lake	FWS			45,000			
Aug 16	A 6.0	FRI	2,000		20,000		>500 kings	
1958								
July 17	A 3.0	FWS			75			
July 24	A length	FWS			12,500			
Aug 4	A 1.0	FWS			3,000			
Aug 11	G mark	FWS	3,000		10,000			
Aug 11	A 6.0	FRI	3,000	0	2,000			None observed at mouth
Aug 13	A length	FWS			25,000			
Aug 31		FRI						No fish observed, few dead

ADF STAT. No.
WR 10

142-60 HARDING RIVER - Continued Previous No. 13

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1959								
July 9	G	FWS						No fish observed
July 22	A 5.0	FWS	2,000		3,000			
July 28	A 5.0	FWS			7,500			Few pinks
Aug 3	G	FWS						600 mixed fish at mouth
Aug 4	A 5.0	FWS			25,000			2,000 dead
Aug 10	A length	FWS			20,000			
Aug 11	A 6.0	FRI	3,000	0	2,000			None observed at mouth
Aug 12	A 4.0	ADF			4,000			Few pinks. Many dead chums
Sept 3	A length	FWS						No fish observed. Evidence washed out
1960								
June 28-July 19	A	ADF						No fish observed
July 21	G 3.5	ADF						Many chums present
July 23	G 4.5	ADF	0		25,000			New fish
Aug 4	A length	ADF	0		45,000			Fish spawning
1961								
July 9	G 0.6	ADF	0		0			Few chums in intertidal
July 11	A 4.5	ADF	0		50			
July 17	G 4.5	ADF	500	0	16,000			Chum spawning
July 23	A 4.5	ADF	few		14,000			Heavy spawning on all riffles
Aug 4	A length	ADF	few		50,000	many		
Aug 18	A length	ADF	many		10,000	17,000		
1962								
July 6	A length	ADF						No fish observed
July 16	A length	ADF			600			
July 25	A to lake	ADF			25,000			100 in intertidal zone
Aug 28	A length	ADF	50		200			
1963								
July 29	A length	ADF			20,000			Count not accurate
Aug 6	skiff 2.0	ADF	1,000		5,000			

142-60 NORTH BRADFIELD RIVER ADF STAT. No. WR 11
56°15' N. 131°28.5' W. Previous No. 14

WRANGELL, BRADFIELD CANAL, N. Head.

MAJOR SPECIES Pinks. OTHER SPECIES Kings.
ESCAPEMENT TIMING Middle. Aug-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION A large glacial-cut valley with many tributary valleys. Most of the valley is heavily timbered with spruce.
DRAINAGE Fed by several glaciers.
STREAM MOUTH IDENTIFICATION
ANCHORAGE Remain at Harding and run to river with skiff.
TRAILS AND SURVEY ROUTES Survey the lower river from a skiff. The upstream area is easily reached along the numerous gravel bars.
AERIAL SURVEY NOTES Impossible to survey due to glacial color of water.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Good.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 15 miles. AVERAGE WIDTH/DEPTH 150'/24".
GRADIENT AND VELOCITIES Moderate to swift.
BOTTOM Gravel, small and large rocks, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES Several small, but good, tributaries enter between 6 and 10 miles upstream.
SCHOOLING AREAS
SPAWNING AREA The first 6 miles has numerous gravel riffles, the next 4 miles has coarse rubble and good gravel is found beyond a glacier 12 miles up.
GENERAL NOTES King salmon carcasses have been observed.

ADF STAT. No.
WR 11
Previous No. 14

142-60 NORTH BRADFIELD RIVER

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 16	A 1.5	FRI						North Fork #14 fair
Sept 10	A	FWS	2,300		230			
1951								
July 25	A 3.0	FRI						None observed
1953								
	Not surveyed							
1954								
	Not surveyed							
1955								
July 7	G 1.5	FWS						No fish observed
Aug 1	G 1.5	FWS						No fish observed
1956								
July 12	G 2.0	FWS						No fish observed
Aug 7	A	FWS						No fish observed
Aug 14	A 3.0	ADF						No fish observed
Sept 17	A 2.0	ADF						No fish observed
1957								
July 12	G 2.0	FWS						No fish observed
Aug 7	A	FWS						No fish observed, water colored
1958								
July 23	G mouth	FWS						None observed
1959								
	No surveys							
1960								
	No surveys							
1961								
	No surveys							
1962								
	No surveys							

142-60 EAST BRADFIELD RIVER ADF STAT. No. WR 12
56°13.6' N. 131°27.8' W. Previous No. 15

WRANGELL, BRADFIELD CANAL, East head.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Went up at high tide, but not able to find many fish, so concluded the escapement was light here.

AVERAGE WIDTH/DEPTH

ADF STAT. No.
WR 12
Previous No. 15

142-60

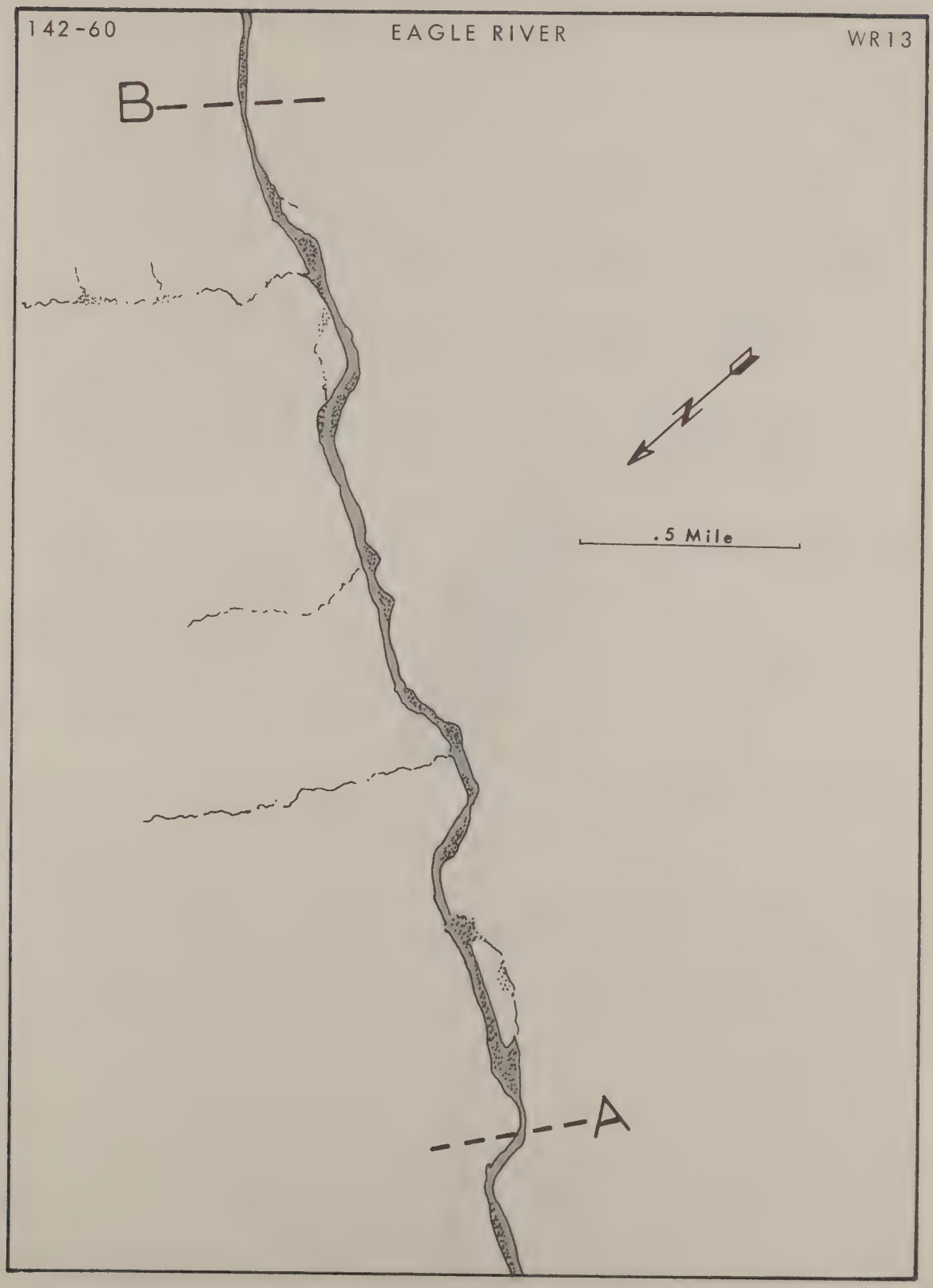
EAST BRADFIELD RIVER

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 16	A 15.0	FRI						#15 S. fork good showing
1956								
Sept 17	A 2.0	ADF						No fish observed
1957								
July 12	G 2.0	FWS						No fish observed
Aug 7	A	FWS						No fish observed
1958								
July 23	G mouth	FWS						No fish observed
1959								
	No surveys							
1960								
	No surveys							
1961								
	No surveys							

142-60
EAGLE RIVER
WR13
A
HT
0.5 Mile


142-60
EAGLE RIVER
WR13
B
N
.5 Mile
A

142-60 EAGLE RIVER WR13

142-60 EAGLE RIVER ADF STAT. No. WR 13
56°09.7' N. 131°35.6' W. Previous No. 16

WRANGELL, BRADFIELD CANAL, EAGLE BAY, Head on S. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, king.
ESCAPEMENT TIMING Late. Sept.-Oct. ESCAPEMENT MAGNITUDE Est. 250,000.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 54°F., 8/1/50; 55.5°F., 8/16/50; 55°F., 9/11/50; 50°F., 9/24/50; 57°F., 8/1/51; 58°F., 8/13/51; 56°F., 8/25/51; 53°F., 9/8/51; 57°F., 9/16/51; 56°F., 8/24/52; 52.5°-56.5°F., 7/21/53-7/28/53; 62°F., 8/1/53; 55°F., 8/14/53; 56.5°F., 8/25/53.
VALLEY DESCRIPTION Glacial origin. Flattened in its lower reaches becoming steep-sided upstream.
DRAINAGE 62 square miles (polar planimeter). Drains two fair-sized lakes. Snowfields surround the valley and probably contribute snowmelt at certain times of the year.
STREAM MOUTH IDENTIFICATION Enters Bradfield Canal just SW. of Duck Island. A large grass flat is found at the mouth.
ANCHORAGE Refer to WR 10.
TRAILS AND SURVEY ROUTES A skiff should be taken upstream at high tide to the upper end of the grass flats. From here, the stream may be followed along the right side though travel is not easy.
AERIAL SURVEY NOTES Aerial visibility is excellent. Light best early in day.

INTERTIDAL ZONE

LENGTH 1 mile. AVERAGE WIDTH/DEPTH 100'-200'/12"-24".
GRADIENT AND VELOCITIES Slight.
BOTTOM Good spawning gravel - lower area sand, silt, and mossy stones.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Deep holes on the W. side of the flats about 0.5 mile upstream offer excellent facilities for schooling.
SPAWNING AREAS Limited to about 500 yards near the upper end. The lower section is composed largely of fine sediment.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >3.5 miles. AVERAGE WIDTH/DEPTH 100'-150'/10"-16".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, small and large rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A falls is one-half mile below the first lake. Falls is impassable.
TRIBUTARIES Numerous small tributaries. A tributary enters at the high tidemark and has a 50' falls 100 yards upstream.
SCHOOLING AREAS Holes are interspersed throughout the distance surveyed.
SPAWNING AREAS Spawning areas appear to be spread uniformly throughout. The best areas seem to be in the lower 2 miles and above the 3-mile mark.
GENERAL NOTES

ADF STAT. No.
WR 13
Previous No. 16

142-60 EAGLE RIVER

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 10	G 1.0	FRI						Too early
Aug 20	A	FWS	100,000		80,000			
Aug 27	G 1.5	FRI	17,200	191	215	158		Excellent showing
Sept 15	G 0.5	FRI	4,500	2,200				Stream high
1950								
Aug 1	G 0.5	FRI	218		409			Water discolored and high
Aug 16	G 1.5	FRI	13,888	29	2,069	179		
Sept 11	G 1.5	FRI	15,201	1,225	179	0		
Sept 11	G 1.5	FRI	15,200	1,225	606	212	11 cohos, 23 kings	
Sept 24	G 0.6	FRI	150	150	3	3		Flooding
1951								
Aug 1	G 1.0	FRI	20,080	0	1,800	0	50 kings	Spawning in intertidal
Aug 13	G 1.0	FRI	32,012	75	2,350	280	2 reds, 50 kings	
Aug 25	G 1.0	FRI	19,500	330	363	179	14 kings, 3 cohos	Half spawning
Sept 2	2.0	FWS	10,000					
Sept 8	G 1.0	FRI	48	55	1	8		Flooding. No visibility
Sept 14	G 0.5	FRI	0	0	1	0		
Sept 16	G 1.0	FRI	2,300	650	130	25	550 cohos, 2 kings	
1952								
July 22	G 1.0	FRI	115	225	0	0		
July 31	G 1.0	FRI	706	0	826	7		
Aug 8	G 1.0	FRI	887	0	780	43		
Aug 15	G 1.0	FRI	8,095	226	494	564	4 kings	
Aug 24	G 1.0	FRI	1,290	30	70	63	5 kings	
1953								
July 20	G 1.0	FWS						1 jump at mouth
July 21	G 1.0	FRI	0	0	185	0		
July 28	G 1.0	FRI	1,110	0	1,130	0		
Aug 6	G 1.0	FRI	4,820	0	2,310	47		
Aug 14	G 1.0	FRI	4,650	11	1,650	517		
Aug 25	G 1.0	FRI	2,080	94	506	415	35 cohos, 23 kings	
Sept 23	G 1.0	FWS						No salmon observed
1954								
June 1	G 2.0	FWS	1,000		10,000			
Aug 7	A 1.0	FRI	2,000	0	2,000	0		
Aug 14	A 1.0	FRI	11,000	0	500	0		None observed off mouth
Sept 10	A 1.0	FRI	5,500	0	0	0		None observed off mouth
1955								
July 11	G 1.0	FWS						No salmon observed
July 23	A 1.0	FRI	0	0	0	0		
July 31		FWS	1,500		600			
Aug 1	G 1.0	FWS	400					
Aug 1	A mkr	FRI	300					
Aug 5	to forks	FWS	250					
Aug 15	A mark	FRI						No salmon observed
Aug 19	A mark	FRI	200					
Aug 26	to lst lake	FWS	500					

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

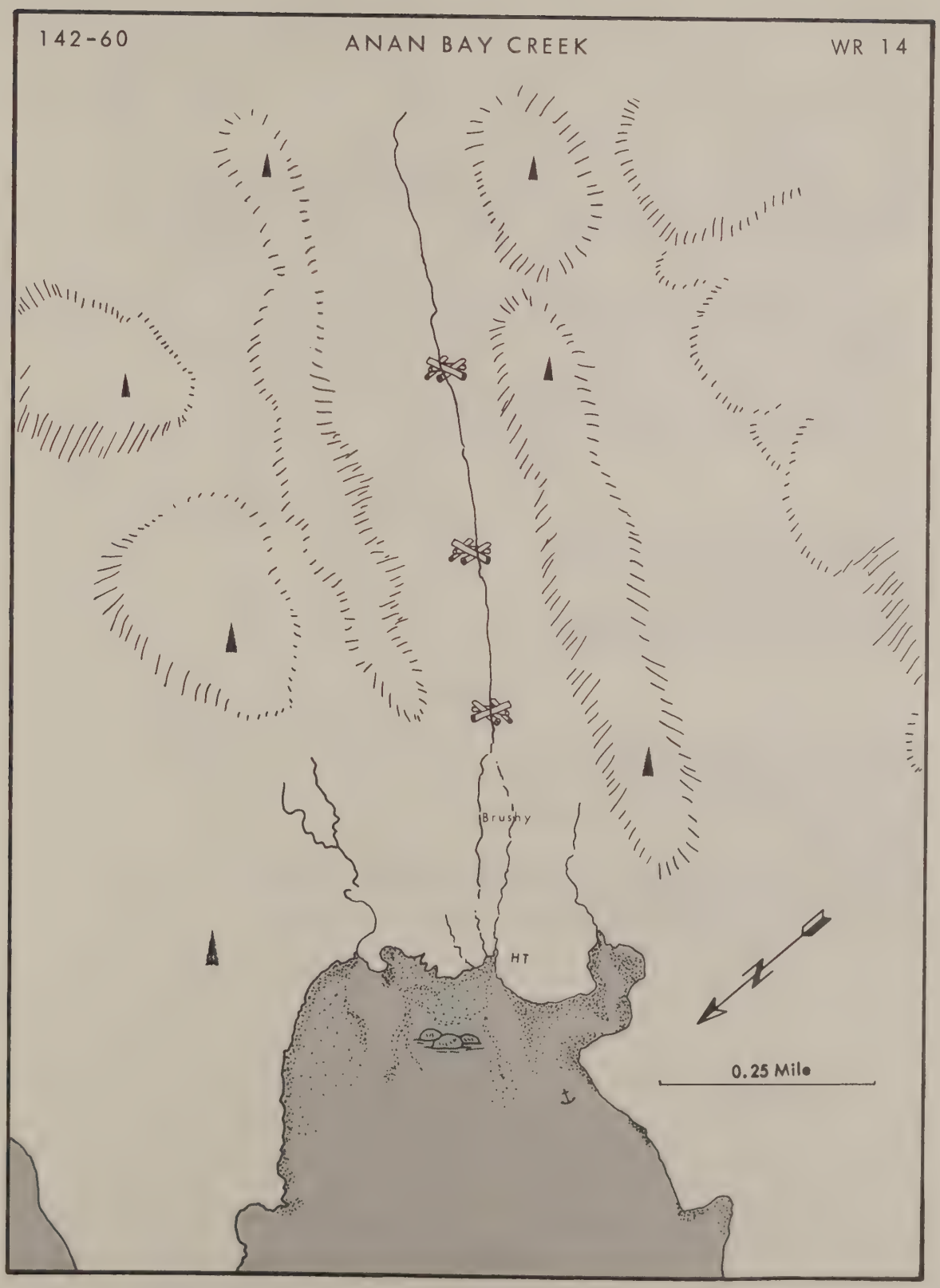
Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1956								
July 22	A 1.0	FRI	0	0	0	0		None observed at mouth
July 25	G 0.5	FWS	500		500			
July 28	A 3.0	FWS	500		500			
July 29	G marker	FRI	600		1,500			
July 31	G marker	FRI	400		1,600			
Aug 4	G 1.0	FWS	4,000		3,500		8 kings	
Aug 4	A to lake	FWS	1,500					
Aug 4	A 1.0	FRI	2,000	0	400	0		>100 at mouth
Aug 9	A 3.0	FWS	1,500		1,500			
Aug 12	G 1.5	FWS	6,000		2,500			
Aug 14	A to lake	FWS	6,000					
Aug 17	A marker	FRI	10,000				300 kings	
Aug 24	A marker	FRI	4,000					
Sept 12	A 5.0	FWS						20,000-30,000 mixed
Sept 17	A 5.0	FWS	2,000				5 kings	1,500 dead
1957								
July 12	G 1.5	FWS						No fish observed
July 30	A 5.0	FWS	6,000					
July 30	A marker	FRI	200		800			
Aug 4	A 1.0	FRI	700	0	2,000	0		Pink entering, chums spawning
Aug 7	A 4.0	FWS	15,000					
Aug 9	A 3.0	FWS	450		1,000			
Aug 16	A to marker	FRI	1,500		300			Pink fresh. Few above marker
Aug 30	G 1.5	FRI-FWS	140		90		1 kings	
1958								
July 17	A 3.0	FWS			300			
Aug 7	G 1.0	FWS	10,000					
Aug 8	A 4.0	FWS	17,500		1,500			
Aug 11	A 1.0	FWS	32,000					All fresh. Schooled
Aug 13	A 3.0	FWS	2,000		1,000			
Aug 16	G 2.0	FWS	12,500		5,000			
Aug 22	A 4.0	FWS	25,000		3,000			
Aug 25	A 1.0	FWS	21,000					Some chums. Most spawning
Aug 27	A length	FWS	65,000		1,500			
Sept 8	G 1.0	FWS	25,000					
Sept 17	lake	FWS	200		200			
1959								
July 9	G	FWS			1			
July 28	A 3.0	FWS	300					
Aug 4	A 4.0	FWS						No fish observed
Aug 12	A 3.0	FWS	300					
Sept 3	A 3.0	FWS						No fish observed
Oct 6	G 1.0	FWS	1					No dead

ADF STAT. No.
WR 13

142-60 EAGLE RIVER - Continued Previous No. 16

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1960								
July 14	A length	ADF						No fish observed
July 21	G 1.0	ADF	50		10		7 kings	
Aug 14	G 3.5	ADF	3,500		1,500		37 dead kings	
1961								
July 9	G 1.5	ADF						No fish observed
July 11	A 3.0	ADF						No fish observed
July 23	A length	ADF						450 pinks in intertidal zone
July 27	A length	ADF	250					
Aug 8	A length	ADF	400					Few schools at mouth
Aug 18	A length	ADF	1,200					All spawning
1962								
July 6	A 2.0	ADF						No fish observed
July 25	A to rapids	ADF						3,000 mixed
Aug 16	A length	ADF						14,000 mixed
Aug 28	below lake	ADF	12,300					2,500 in intertidal zone
1963								
July 24	A	ADF						200 pinks at mouth
July 24	G 1.0	ADF						No fish observed
July29	A length	ADF						Few pinks and chums


142-60
ANAN BAY CREEK
WR 14
Brushy
HT
N
0.25 Mile

141-60 ANAN BAY CREEK ADF STAT. No. WR 14
56° 10. 8' N. 131° 52. 3' W. Previous No. 17

WRANGELL, BRADFIELD CANAL, ANAN BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES
ESCAPEMENT TIMING Middle. Aug. -Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. Observed temperatures: 56. 5° F., 7/31/52; 51°F., 8/24/52; 51. 5°F., 9/1/52; 48°F., 9/12/52; 55°F., 7/30/53; 53. 5°F., 8/14/53; 52°F., 8/24/53; 53°F., 9/5/53.
VALLEY DESCRIPTION Stream-cut, running in a northwesterly direction. Valley walls rise sharply away from the W. side of the river in its upper reaches.
DRAINAGE 52 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION Tidal area does not extend past the tree line. Heavily wooded.
ANCHORAGE Good anchorage is found just off the creek mouth.
TRAILS AND SURVEY ROUTES Many windfalls and brush overgrow the stream making travel difficult. Keep on top of the rim in the canyon for easiest travel.
AERIAL SURVEY NOTES Brush could obstruct aerial visibility.

INTERTIDAL ZONE

LENGTH 100 yards. AVERAGE WIDTH/DEPTH 6'-10'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mainly small and medium sized rocks.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Fish school off the mouth.
SPAWNING AREAS The upper half is utilized.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 10'-15'/8"-12".
GRADIENT AND VELOCITIES Steep.
BOTTOM Small gravel - 2"-4", large rock and boulders.
MARKER DISTANCE 3/8 mile.
MARKER IDENTIFICATION None established.
BARRIERS
TRIBUTARIES
SCHOOLING AREAS A few pools were found throughout the distance surveyed.
SPAWNING AREAS The best spawning area is just above the high tide mark. The bottom becomes very coarse near the lower end of the canyon.
GENERAL NOTES The stream splits and rejoins many times in its lower reaches.

142-60

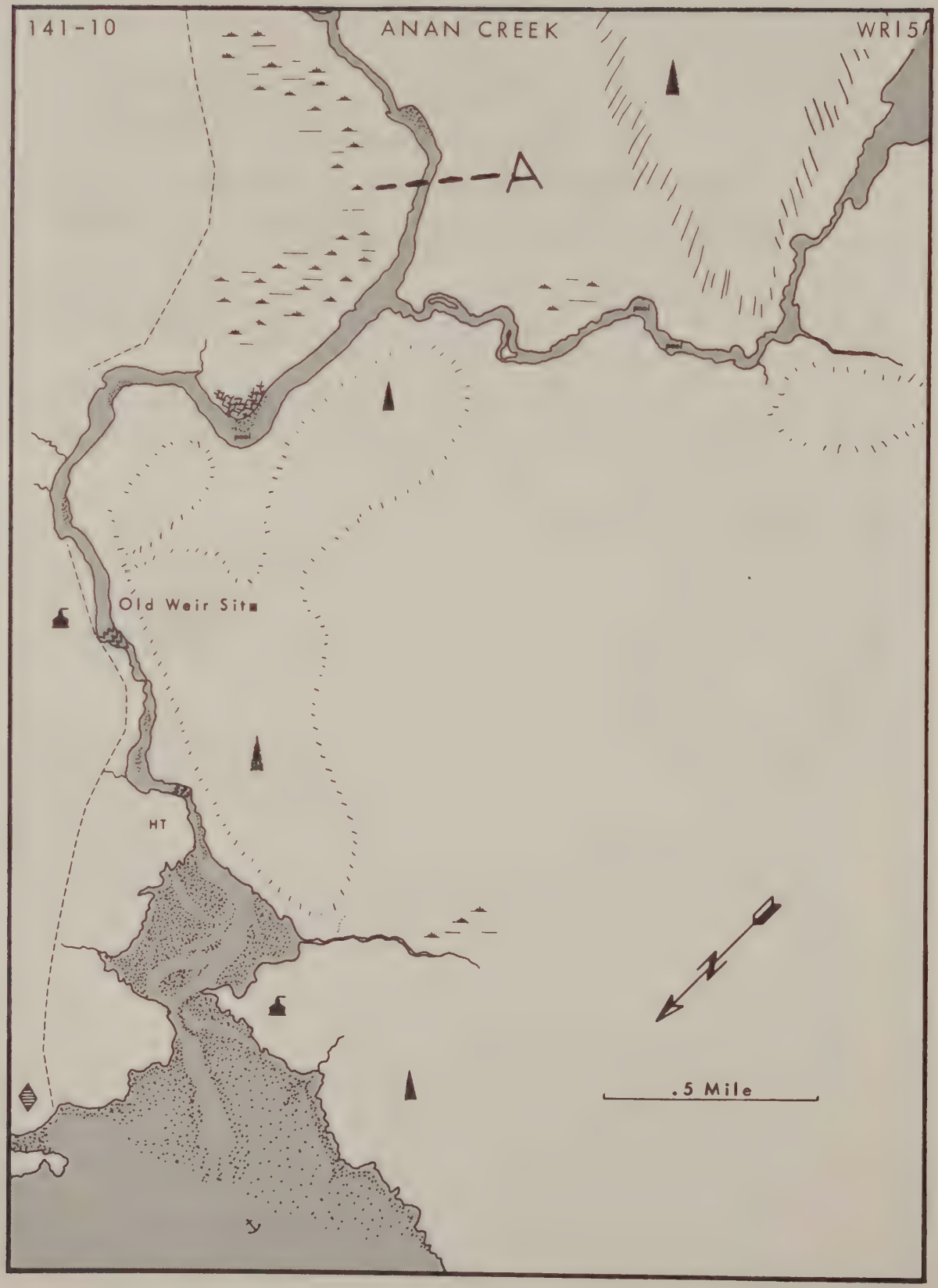
ANAN BAY CREEK

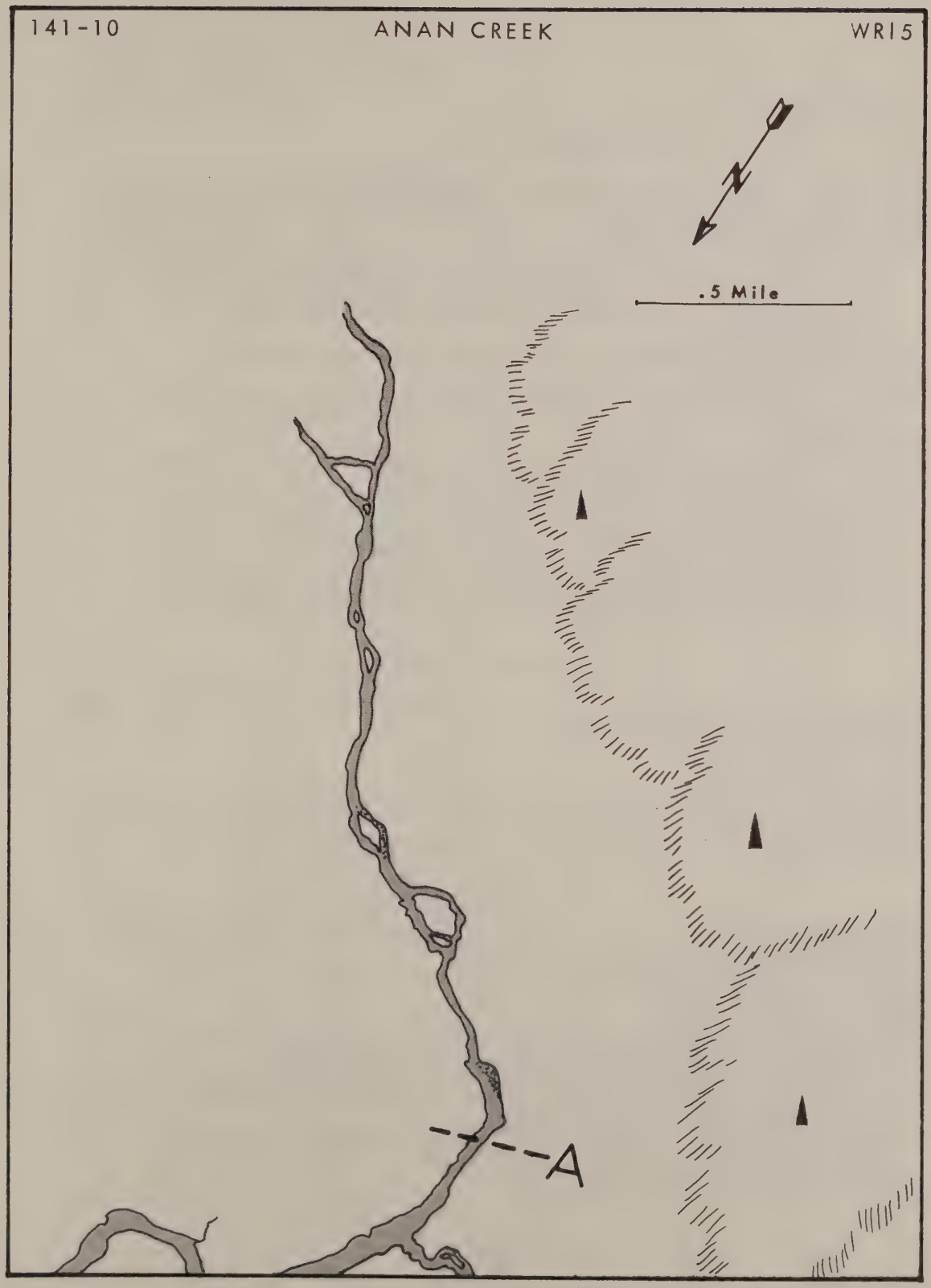
ADF STAT. No.
WR 14
Previous No. 17

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 19		FWS	500		1,000			
Aug 27	G 0.1	FRI	300	0	0	0		Exploratory survey
1951								
Aug 22	G 0.7	FWS	6,000	600				
Sept 11	G 0.1	FRI	700	250				Past spawning peak
1952								
July 20	G 0.4	FRI	0					
July 30	G 0.4	FRI	0					
Aug 8	G 0.4	FRI	0					
Aug 16	G 0.4	FRI	3					
Aug 24	G 0.4	FRI	125					
Sept 1	G 0.4	FRI	76					
Sept 12	G 0.4	FRI	25	2				
1953								
July 30	G 0.4	FRI						No fish in or off creek
Aug 6	G 0.4	FRI	7					
Aug 14	G 0.4	FRI	110					14 pinks spawning
Aug 24	G 0.4	FRI	306					205 pinks spawning
Sept 5	G 0.4	FRI	31					Pinks spawned out
1955								
July 29		FRI	25,000					
1960	Not surveyed							
1961	Not surveyed							


141-10
ANAN CREEK
WRI5
A
Old Weir Site
HT
.5 Mile


N
.5 Mile
A

141-10 ANAN CREEK ADF STAT. No. WR 15
56°10.8' N. 131°52.3' W. Previous No. 18

WRANGELL, BRADFIELD CANAL, HUMPBACK BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, steelhead.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE 205,000.
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Warm range. Observed temperatures: 64°F., 7/10/52; 64°F., 7/14/52; 55°F., 7/19/52; 59.5°F., 7/25/52; 63°F., 7/28/52; 62°F., 8/4/52; 61°F., 8/12/52; 65.5°F., 8/13/52; 59°F., 8/25/52; 58°F., 8/27/52; 56°F., 9/4/52; 56°F., 9/5/52; 58°F., 7/20/53; 61°F., 7/26/53; 62.5°F., 7/27/53; 64.5°F., 8/4/53; 69°F., 8/5/53; 60°F., 8/12/53; 62°F., 8/13/53; 59°F., 8/19/53; 59°F., 8/23/53; 57.5°F., 9/2/53; 58°F., 9/8/53; 56°F., 9/11/53; 52°F., 9/18/53.
VALLEY DESCRIPTION Broad in the lower part, narrows above the forks and has a steeper gradient. Heavily forested.
DRAINAGE 52 square miles (polar planimeter). Precipitation-fed. The E. fork is fed by numerous small lakes and ponds. The W. fork drains Anan Lake, 3 miles long, and Boulder Lake, 2 miles long.
STREAM MOUTH IDENTIFICATION Lies at the head of Humpback Bay. The stream enters a lagoon and the lagoon enters the bay through a constricted mouth.
ANCHORAGE Good anchorage is afforded in Humpback Bay or small cove on NE. shore of bay.
TRAILS AND SURVEY ROUTES A skiff may be taken into the lagoon at or near high tide and secured at the upper end. The skiff may also be left just E. of the mouth and a forest service trail, marked by a sign, followed upstream. The trail ends just above the old weir shack. A beaver dam is found 0.7 mile above the high tidemark and a rough section of stream may be bypassed by going E. to the end of the pond and then S. through muskeg to the E. fork. The E. fork is easily waded.
AERIAL SURVEY NOTES Visibility is excellent in the E. fork. The W. fork has amber colored water.

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH 80'-100'/12"-24".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Schooling takes place throughout, but the main schooling area is at the upper end. Fish also school heavily off the mouth.
SPAWNING AREAS The upper and middle part of the lagoon offer fair spawning facilities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles. AVERAGE WIDTH/DEPTH 100'/12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Predominantly small gravel, grading into large 2 miles from mouth.
MARKER DISTANCE 3.3 miles.
MARKER IDENTIFICATION
BARRIERS Two falls, one at the high tidemark and another 700 yards upstream, are a partial block to salmon at certain water levels. Falls 3.5 miles up the E. fork is a complete block.
TRIBUTARIES The stream forks 1.5 miles upstream. The W. fork drains two lakes.
SCHOOLING AREAS Pools and deep areas are scattered throughout the main stream and forks. Below the forks there are several large, deep areas.
SPAWNING AREAS The E. fork offers the best spawning facilities; all riffle areas are utilized. Some good spawning areas are found below the forks. The W. fork is a series of cascades for a mile, but above this there are fair spawning areas.
GENERAL NOTES Brown bear frequent this stream.

ADF STAT. No.
WR 15
Previous No. 18

141-10 ANAN CREEK

ESCAPEMENT RECORD

Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1925								
Sept 8	Weir	USBF	260,844		133		654 cohos, 75 reds 67 kings	Weir installed June 17
1926								
Aug 31	Weir	USBF	121,784		75		596 cohos, 57 reds 87 kings	Weir installed June 12
1927								
Sept 27	Weir	USBF	44,936		280		1,942 cohos, 121 reds, 68 kings	Weir installed June 11
1928								
Sept 19	Weir	USBF	195,577		67		2,859 cohos, 70 reds, 40 kings	Weir installed June 18
1929								
Sept 22	Weir	USBF	221,462		57		976 cohos, 61 reds, 40 kings	Weir installed June 14
1930								
Sept 7	Weir	USBF	563,938		65		1,087 cohos, 20 reds, 57 kings	Weir installed June 12
1931								
Sept 1	Weir	USBF	613,598		27		1,206 cohos, 31 reds, 42 kings	Weir installed June 17
1932								
Aug 14	Weir	USBF	132,351		80		2,015 cohos, 15 reds, 93 kings	Weir installed July 5
1935								
Season		USBF						850,000
1949								
July 8	G 3.5	FRI	3,500		33-35			Fish below falls
July 21	G 1.0	FRI	5,000		40-48			
Aug 13	G 3.0	FRI	300,000	6				
Aug 26	G 4.0	FRI	142,000	3,905				
Sept 14	G 1.0	FRI	25,000	2,000				
Sept 28	G 2.0	FRI	1,486					Some dead pinks
1950								
July 7	G 2.5	FRI	1,757					
July 10	G 2.5	FRI	12,136					
July 14	G 2.5	FRI	15,692					
July 28	G 2.5	FRI	41,925					
Aug 7	G 2.5	FRI	36,560					
	plus		36,000					For 2.5 miles more
Aug 13	G 2.5	FRI	52,834					
Sept 18	G 2.5	FRI	14,135					
1951								
July 11	G 2.5	FRI	6,700					
July 20	G 2.5	FRI	28,500					
July 25	A 2.5	FRI	50,000					20,000 salmon off mouth
July 26	G 2.5	FRI	54,000		2		3 reds	70% schooled

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1951								
July 31	3.0	FWS	150,000					
Aug 10	G 2.5	FRI	137,000	250				
Aug 10	G 5.0	FRI	141,000	260				
Aug 16	G 2.5	FRI	123,000	700				Schooled
Aug 22	G 2.5	FRI	94,000	300	6	2	1 coho, 1 red	
Aug 22	G 5.0	FRI	123,500					
Aug 29	G 2.5	FRI	86,800	1,600	3		16 cohos	1 dead red
Sept 2	3.0	FWS	350,000					
Sept 4	G 2.5	FRI	50,000	7,000		1	9 cohos	Half pink schooled
Sept 12	G 2.5	FRI	32,000	3,800				Water high, poor visibility
1952								
July 19	G 2.5	FRI	37,600					
July 19	A 5.0	FWS	19,000					
July 25	G 2.5	FRI	31,300	0	0	0		Ascending, small groups
July 28	G 2.5	FRI	22,260	0	0	0		Ascending, small groups
Aug 4	G 2.5	FRI	36,835					
Aug 7	A	FWS	50,000					
Aug 12	G 3.0	FWS-ADF	4,775	260	0	0	6 cohos	Possibly 85,000 pinks in all stream
Aug 12		FRI	36,750	950				
1953								
July 16	G 2.5	FRI	2,160	0	0	0		
July 20	G 2.5	FRI	12,375	0	0	0		
July 27	G 2.5	FRI	9,647	0	44	0		
Aug 4	G 2.5	FRI	13,425	0	0	0		
Aug 12	G 2.5	FRI	21,575	10	0	0		
Aug 19	G 2.5	FRI	15,893	41	30	0		
Aug 23	G 2.5	FRI	3,472	8	4	0		
Sept 2	G 2.5	FRI	11,246	0	4	0	100 cohos, 3 reds	
Sept 11	G 2.5	FRI	7,970	560	0	0	3 kings, 3 reds	
Sept 18	G 1.2	FRI	3,145	652	0	0		
1954								
July 8	G	FWS	7,000	0	0	0		
July 10	G 0.2	FWS	10,000	0	0	0		
July 11	G 2.5	FWS	0	0	0	0		
July 13	G 2.5	FWS	0	0	0	0		500 fish 1st and 2nd falls
July 15	G 0.2	FWS	100,000	0	0	0		
July 20	G 0.2	FWS	100,000	0	0	0		
July 22		FWS	500,000	0	0	0		
July 23	G 0.5	FWS	13,500	0	25	0		
July 24	G 0.5	FWS	2,547	0	0	0		
July 24	to gage	FWS	<200,000					
Aug 7	all	FRI	121,000					
Aug 7	G 0.5	FRI	106,000					15,000 above marker
Aug 14	G 0.5	FRI	117,000		0	0		Few dead pinks
Sept 10	G 0.5	FRI	14,000		0	0		Few at mouth, 4,000 dead

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1955								
July 10	G 0.5	FWS	100	0	0	0		100 in lagoon
July 15	G 0.2	FWS	1,000	0	0	0		
July 23	A 3.0	FWS	3,000	0	0	0		No salmon above falls
July 24	G 0.5	FWS	8,000					
July 25	A 0.2	FWS	10,000					
July 29	A 3.0	FRI	25,000	0	0	0		Two schools in Blake Channel
Aug 1	A 3.0	FRI	60,000	0	0	0		3,000-5,000 at mouth
Aug 1	G	FWS	25,000					Weir site
Aug 15	A 3.0	FRI	0	0	0	0		Flooding. Peak is past
Aug 5	A length	FWS	55,000					
Aug 19	A 3.0	FRI	30,000	0	0	0		Schooled
Aug 24	A length	FWS	60,000					
1956								
June 28	G 1.2	FWS	21,300					
June 28	G 1.2	FWS	24,800					
July 2	A 0.7	FWS	40,000					
July 5	old weir	FWS	80,000					
July 7	to thermog	FWS	100,000					
July 7		ADF	40,000					
July 7		FWS	125,000					
July 9	2d falls	FWS	130,000					
July 12	2d falls	FWS	180,000					
July 14	A 5.0	FWS	200,000					170,000 in creek
July 18	A 3.0	FWS	350,000	0	0	0		Jumps in Ernest Sound
July 22	A 3.0	FWS	300,000	0	0	0		30,000 at mouth
July 23	A 3.0	FWS	250,000					30,000 in lagoon
July 24	A 3.0	FWS	350,000	0	0	0		
July 28	A 3.0	FWS	275,000					Large schools upstream
July 29	A 3.0	FRI	400,000	0	0	0		20,000 at mouth
July 31	A mark	FWS	300,000					10,000 in lagoon
Aug 4	A 3.0	FWS	300,000					
Aug 4	A 3.0	FRI	370,000	0	0	0		Thousands at mouth
Aug 14	A 4.0	FWS	325,000					Spawning at peak
Aug 17	A 3.0	FRI	450,000	0	0	0		10,000 at mouth
Aug 24	A 3.0	FWS	200,000	0	0	0		Spawning throughout
Sept 4	A 4.5	FWS	325,000					Spawning at peak
Sept 7	A mark	FWS	200,000					
Sept 7	A 3.0	FRI	200,000	0	0	0		Most spawning
Sept 11	A length	FWS	500,000					Thousands dead
1957								
July 3	G 0.2	FWS	14					
July 8	G to weir	FWS	300					
July 9	G 0.2	FWS	350					
July 10	G to weir	FWS	1,350					Est. 2,000 off mouth
July 12	G 2.0	FWS	3,775					Est. 5,000 outside
July 14	G 0.5	FWS	20,000					
July 15	G to weir	FWS	20,000					
July 19	G mark 13	FWS	24,500					
July 20	G mark 14	FWS	30,000					
July 22	G to falls	FWS						1,500-3,000 pinks in bay
July 27	.2 past falls	FWS	15,000					
July 26		FWS	55,000					

ADF STAT. No.
WR 15

141-10 ANAN CREEK - Continued Previous No. 18

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1957								
July 28	G 2nd falls	FWS	25,000					
July 29	A mark	FRI	70,000					Few off mouth
July 29	G length	FWS	60,000					
July 30	5 mi past Y	FWS	59,000					
July 30	A 5.5	FRI	38,500					
Aug 4	A mark	FRI	85,000					All schooled
Aug 7	A 5.0	FWS	200,000					
Aug 9	A length	FWS	85,000					
Aug 16	A mark	FRI	55,000					300 dead. None at mouth
Aug 25	A mark	FRI	65,000					Few dead
Aug 29	G to forks	FRI-FWS	65,000					Some chums
Sept 2	A mkr	FRI-FWS	45,000					3,000 dead
Sept 11	G to forks	FRI-FWS	19,000		380			
1958								
June 24	G to falls	FWS	175					10,000 outside lagoon
June 28	G 1.2	FWS	5,000					
July 2	G 0.7	FWS	3,500					
July 2	G	FWS	7,250					
July 3	G 1.0	FWS	11,000					
July 5	G 0.5	FWS	6,000					
July 5	A& G 0.5	FWS	7,000					
July 5	G 1.0	FWS	8,000					
July 8	G 1.0	FWS	12,000					
July 10	G 1.0	FWS	13,000					
July 11	G 2d fork	FWS	23,000					
July 12	A abv fork	FWS	50,000					
July 14	G 0.7	FWS	25,000					
July 14	G to canyon	FWS	38,000					
July 15	G abv falls	FWS	27,000					
July 16	G 1.2	FWS	30,000					
July 17	G 4.0	FWS	68,000					
July 17	A length	FWS	75,000					
July 20	G fork	FWS	36,000					
July 24	A to falls	FWS	85,000					
July 31	G 5.0	FRI	300,000					
Aug 2	G 1.2	FWS	34,000					
Aug 8	A length	FWS	90,000					
Aug 11	A mark	FWS	60,000					Some dead pinks
Aug 17	G 1.5	FWS	2,000		50			
Aug 22	A length	FWS	90,000					
Aug 25	A mark	FWS	60,000					Some chums
Aug 28	G 1st falls	FWS	2,000					
Aug 29	G 5.0	FRI	100,120					
Sept 17	A mark	FWS	10,000					Many dead pinks
1959								
June 28	G 0.5	FWS						None observed
June 30	G 0.2	FWS	170					
July 1	G	FWS	500					500 in lagoon, 1,000 off mouth

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
July 3	G 1.5	FWS	1,500					1,000 in lagoon
July 4	G 2.0	FWS	2,000					800 in lagoon
July 5	G 1.0	FWS	6,000					2,000 in lagoon
July 6	G 1.0	FWS	7,200					1,200 in lagoon
July 8	G 1.2	FWS	10,000					1,000 in lagoon
July 9	G to forks	FWS	12,000					2,000 in lagoon
July 10	3d lookout	FWS	12,000					1,000 in lagoon
July 10	G to forks	FWS	16,000					1,000 in lagoon
July 11	G to forks	FWS	20,000					1,000 in lagoon
July 12	G 1.0	FWS	20,000					3,000 in lagoon
July 13	2d lookout	FWS	18,000					500 in lagoon
July 16	G 2.7	FWS	35,000					500 in lagoon
July 23	G 1.2	FWS	55,000					5,000 in lagoon
July 27	A 3.0	FWS	55,000					1,000 pairing off
July 28	A 5.0	FWS	30,000					Fish schooled in holes
Aug 4	A 4.0	FWS	55,000					
Aug 10	A length	FWS	70,000					1,000 in lagoon
Aug 12	A 5.0	FWS	140,000					Schooled in holes
Aug 15	G lagoon	FWS	300					Few pinks coming in
Aug 19	A length	FWS	85,000					
Aug 20	G to forks	FWS	70,000					
Sept 3	A 5.0	FWS	65,000					Active spawning, few dead
Oct 1	G 0.5	FWS	5,000					
1960								
June 28	G	ADF						Pink present off mouth and in stream
July 7	G lst falls	ADF	3,000					3,000 off mouth
July8-9	A length	ADF	present					
July 11	G 2d falls	ADF	12,000					5,000 pinks at mouth
July 12	A length	ADF	15,000					
July 14	A length	ADF	21,000					Many off mouth
July 14	G 2d falls	ADF	14,000					
July 15	A 3.5	ADF	12,000					8,000-10,000 pinks at mouth
July 17	A length	ADF	41,000					
July 17	G 2d falls	ADF	28,000					6,000 in lagoon and 13,000 pinks above second falls
July 19	A length	ADF	many					16,000 above falls
July 27	A length	ADF	75,000					Few in lagoon
July 28	A length	ADF	75,000					1,500 in lagoon
July 28	G 2d falls	ADF	75,000					Includes 45,000 below second falls
Aug 4	A length	ADF	93,000					3,000 to first falls
Aug 9	G lst falls	ADF	300					All old fish
Aug 14	G lst falls	ADF	250					50 pinks in lagoon
1961								
July 6	A length	ADF	100					Pink jumping off mouth
July 7	A length	ADF	200					1,500-2,000 pinks in lagoon
July 8	G 1.0	ADF	5,000					Below second falls
July 9	A and G	ADF	5,000					1,200 above the falls

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1961								
July 13	G 0.5	ADF	7,000					500 pinks at mouth
July 14	A length	ADF	10,000					500 at mouth
July 16	G-A length	ADF	16,000					400 in intertidal zone
July 17	G 0.5	ADF	5,500					250 in intertidal zone
July 21	A length	ADF	20,000					
July 23	A length	ADF	15,000					1,700 at mouth
July 27	A length	ADF	17,000					200 pinks in intertidal
Aug 2	A length	ADF	>40,000					2,000 in intertidal
Aug 4	A length	ADF	42,000					500 at mouth
Aug 8	G 2d falls	ADF	6,500					1,000 in intertidal
Aug 8	A length	ADF	31,000					Above second falls
Aug 18	A length	ADF	60,000					None in lagoon
Aug 26	A length	ADF	50,000					
1962								
June 29	A length	ADF						No fish observed
July 2	G 2d falls	ADF	2,000					
July 5	G 2d falls	ADF						15,000 in intertidal zone
July 6	A length	ADF						20,000 in intertidal zone
July 8	A length	ADF						30,000 in intertidal zone
July 8	G 2d falls	ADF	50,000					
July 9	G 2d falls	ADF	60,000					
July 11	G 2d falls	ADF	50,000					10,000 in lagoon
July 12	A length	ADF	1,500					40,000 at mouth; 50,000 in intertidal
July 14	G 0.2	ADF	60,000					4,000 at mouth; 20,000 in lagoon
July 15	G 0.2	ADF	65,000					5,000 at mouth; 20,000 in lagoon
July 16	A 3.0	ADF	200					45,000 in lagoon
July 17	A 2.0	ADF	50,000					40,000 in lagoon
July 19	A length	ADF	30,000					2,000 at mouth
July 23	G 2d falls	ADF	35,000					15,000 in lagoon
July 25	A and G	ADF	55,000					45,000 in lagoon
July 29	A and G	ADF	55,000					30,000 in lagoon
July 30	A length	ADF	40,000					40,000 in lagoon
Aug 3	A length	ADF	60,000					30,000 in lagoon
Aug 9	A length	ADF	148,000					20,000 in lagoon
Aug	A length	ADF	147,000					30,000 in lagoon
Aug	A length	ADF	34,000					
Aug 15	A length	ADF	200,000					1 king in lagoon
Aug 16	A length	ADF	200,000					
Aug 21	A length	ADF	135,000					1,000 in lagoon
Aug 30	A length	ADF	139,000					9,000 in lagoon
1963								
July 7	A lagoon	ADF						500 in intertidal zone
July 10	G 2d falls	ADF						1,000 at mouth
July 15	G length	ADF	12,000					Spread out
July 23	G 2.0	ADF	21,000					6,700 in intertidal zone
July 26	G forks	ADF	40,000					550 in intertidal zone
July 29	A length	ADF	70,000					15,000 in intertidal zone
Aug 1	G 2d falls	ADF	19,000					
Aug 5	G 2d falls	ADF	25,000					4,000 in intertidal zone
Aug 7	A length	ADF	125,000					5,000 in intertidal zone
Aug 16	A length	ADF	205,000					2,000 at mouth
Aug 16	A length	ADF	258,000					By helicopter

141-10

ANAN CREEK

ADF STAT. No. WR 15
Previous No. 18

U. S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1925								
June 17	13							
18	4							
19	6							
20	6							
21	14							
22	168							
23	1,445							
24	2,768							
25	3,645							
26	2,949							
27	3,465							
28	1,286							
29	328							
30	793							
July 1	749							
2	2,570							
3	4,976							
4	5,079							
5	5,856				5			
6	8,694							
7	14,071							
8	1,285							
9								
10	1,519							
11	1,164				6			
12	137							
13								
14	748							
15	2,849							
16	3,963							
17	1,397							
18	3,602				7			
19	7,312							
20	10,385							
21	9,663							
22	11,235							
23	10,915							
24	10,211							
25	7,841	21	28	6	6			
26	4,621							
27	6,489							
28	4,467							
29	6,233							
30	5,512							
31	7,302							
Aug 1	3,665	26	35		9			
2	4,712							
3	1,938							
4	1,864							
5	1,296							
6	4,905							
7	8,310							
8	7,085	15	76		12			
9	6,001							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1925								
Aug 10	6,318							
11	9,400							
12	3,818							
13	3,282							
14	2,269							
15	2,961							
16	1,970							
17	1,675							
18	1,517							
19	1,694							
20	709							
21	1,494							
22	773	16	74	9				
23	618							
24	624							
25	279							
26	376							
27	333							
28	245							
29	407	28	64		22			
30	214							
31	288							
Sept 1	280							
2	245							
3	306							
4	422							
5	319	27	377	43				
6	220							
7	134			17				
8	143							
9								
Total	260,844	133	654	75	67			
1926								
June 12	1							
13	8							
14	16				1			
15	44							
16	230				1			
17	177							
18	403							
19	425							
20	1,514				1			
21	2,984				3			
22	1,494				1			
23	2,621				1			
24	1,875				2			
25	563				2			
26	893							
27	5							
28	234				4			
29	493				1			
30	1,826				3			
July 1	1,950				2			
2	2,445				6			
3	5,305				2			
4	7,454	2						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1926								
July 5	5,655				2			
6	7,067			2	2			
7	5,732							
8	5,730	2		2				
9	4,853		1					
10	4,263		1		1			
11	4,483				1			
12	4,461			1	4			
13	4,217				2			
14	3,909		2		2			
15	3,308	1	2		4			
16	2,469		1					
17	3,548							
18	1,673	1	6	1	13			
19	1,503							
20	3,984							
21	4,581							
22	3,096							
23	2,199							
24								
25	776							
26	877							
27	1,536							
28	1,593							
29	870							
30	600							
31	585							
Aug 1	369							
2	1,476							
3	908							
4	528							
5	262							
6	310							
7	142							
8	108	13	168	3	2			
9	47							
10	39							
11	46							
12	44							
13	36							
14	21							
15	23	2	80					
16	23							
17	6							
18	325							
19	190							
20	41							
21	40	10	157	6	17			
22	47							
23	30							
24	18							
25	82							
26	14							
27	18							
28	21	14	113	24	5			
29	17							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1926								
Aug 30	11							
31	14							
Sept 1		10	65	18	2			
Total	121,784	75	596	57	87			
1927								
June 22	1							
23								
24	2							
25	2							
26	1							
27								
28	4							
29	1							
30	37							
July 1	94							
2	42				2			
3	290							
4	138							
5	178							
6	550							
7	988							
8	18							
9	23				12			
10	223							
11	674							
12	664							
13	977							
14	179							
15	1,398							
16	1,254		2	3	10			
17	879							
18	897							
19	642							
20	656							
21	1,243							
22	881							
23	295		16		5			
24	838							
25	835							
26	624							
27	482							
28	866							
29	1,859							
30	867		24	2	14			
31	1,726							
Aug 1	876							
2	818							
3	996							
4	395							
5	761							
6	947	6	41	1	5			
7	592							
8	603							
9	359							
10	340							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1927								
Aug 11	1,354							
12	335							
13	672	15	41	11	5			
14	306							
15	409							
16	396							
17	318							
18	452							
19	449							
20	272	26	103	10				
21	400							
22	346							
23	616							
24	116							
25	1,298							
26	242							
27	299	27	189	23	7			
28	766							
29	771							
30	804							
31	918							
Sept 1	416							
2	564							
3	421	99	532	22	1			
4								
5	358							
6	403							
7	350							
8	204							
9	493							
10	283	8	511	13	6			
11	130							
12	204							
13	252							
14	43							
15	179							
16	454							
17	88	36	354	25	1			
18	94							
19	97							
20	120							
21	69							
22	85							
23	75	63	129	11				
Total	44,936	280	1,942	121	68			
1928								
June 18	4							
19								
20	8							
21	8							
22	427							
23	458				1			
24	471				1			
25	825							
26	2,170				1			

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
June 27	3,011				1			
28	4,198				1			
29	4,561				3			
30	3,570				2			
July 1	3,114							
2	5,628				3			
3	4,356							
4	5,854				3			
5	5,646				3			
6	6,555	1	1		3			
7	4,869	1						
8	2,691		3	1	1			
9	4,598		1					
10	4,397		4					
11	3,462	2	2					
12	848		1		1			
13	1,524							
14	2,466	4	9		2			
15	5,204	2	15	1	2			
16	8,561	5	25	5				
17	14,922	1	16	3	2			
18	15,696		34	2	1			
19	11,136		18					
20	2,318		31	1				
21	957		1					
22	47		1		1			
23	4,936		40					
24	5,652		35	1				
25	7,177		29	2	2			
26	8,265		27	1				
27	8,309		37					
28	5,005		24					
29	3,838		3		1			
30	3,827	2	98	2	1			
31	3,007	2	108					
Aug 1	2,381	2	86					
2	1,365		30					
3	1,422	1	47					
4	863		74		1			
5	214	1	59					
6	853	2	169	1				
7	378	8	50					
8	180	5	79					
9								
10	12		8					
11	18							
12	8		11					
13	52		3					
14	356	1	164	4				
15	185	1	50					
16	184	3	58	1	1			
17	113	3	64	1				
18	113		55					
19	248		66					
20	90		56					
21	69	1	40					

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
Aug 22	32		26					
23	1		21					
24	53	1	35					
25	46		15					
26	6		4		1			
27	24	1	6					
28	17		6					
29	19		1					
30	33		10					
31	34		11					
Sept 1	47		43	1				
2	50		39					
3	74		40					
4	46	4	12					
5	65	2	20					
6	38		10					
7	44		13					
8	36		5					
9	55	1	3					
10	243	2	89	3				
11	194	2	147	2				
12	171	1	107	1				
13	106	1	33	9				
14	228		95	8				
15	53	1	121	6				
16	37	1	41	2				
17	38		68	10				
18	17		48					
19	9		15	2				
20								
21								
22	4		11		1			
23	7		20					
24	6	1	12		1			
Total	195,577	67	2,859	70	40			
1929								
June 14	4							
15	1							
16	10							
17	13							
18	3							
19	20							
20	6							
21	11							
22	183							
23	553							
24	534							
25	796							
26	46							
27	542							
28	855							
29	2,699							
30	2,791							
July 1	3,705							
2	1,272							
3	1,410							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
July 4	2,899							
5	2,494							
6	3,207							
7	7,113			2	11			
8	7,095							
9	4,121							
10	5,470							
11	6,340							
12	6,254							
13	4,480							
14	4,882		1	6	13			
15	4,175							
16	3,016							
17	2,196							
18	1,818							
19	3,685							
20	4,209							
21	4,229	4	10	11	5			
22	4,223							
23	2,273							
24	2,663							
25	3,431							
26	6,306							
27	922	1	38	3	5			
28	3,067							
29	2,693							
30	6,063							
31	9,113							
Aug 1	9,267							
2	10,454							
3	5,930							
4	8,370							
5	5,632							
6	5,044							
7	5,001							
8	5,156							
9	2,992							
10	3,031							
11	2,618	4	83	3	4			
12	2,796							
13	2,595							
14	2,001							
15	1,957							
16	1,140							
17	523							
18	1,002	12	146	8	1			
19	1,023							
20	1,078							
21								
22								
23	512							
24	586							
25	199	2	91	6				
26	272							
27	782							
28	688							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
Aug 29	500							
30	503							
31	300	1	158	8	1			
Sept 1	852							
2	564							
3	526							
4	423							
5	161							
6	403							
7	232							
8	266							
9	209							
10	144							
11	104							
12	325							
13	104							
14	132							
15	114	17	173	3	1			
16	225							
17	173							
18	213							
19	265							
20	111							
21	39							
22	34	16	276	11				
Total	221,462	57	976	61	40			
1930								
June 12	1							
13	2							
14	1							
15								
16	4							
17	7							
18	1							
19	3							
20	3							
21	5							
22	16							
23	40							
24	189							
25	95							
26	1,275							
27	2,209							
28	3,203							
29	2,267							
30	610							
July 1	1,239							
2	3,399							
3	4,066							
4	3,876							
5	9,171							
6	11,543							
7	5,488							
8	4,002							
9	9,319							
10	24,950							
11	30,611							
12	31,897							
13	33,754							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
July 14	27,119							
15	8,487							
16	6,816							
17	10,956							
18	20,100							
19	30,301							
20	24,834							
21	5,792							
22	1,189							
23	3,539							
24	7,746							
25	9,617							
26	10,423							
27	16,576							
28	14,530							
29	1,698							
30	6,440							
31	26,378							
Aug 1	19,641							
2	220							
3	32,215							
4	13,353							
5	4,751							
6	150							
7	2,141							
8	4,629							
9	8,028							
10	10,631							
11	10,292							
12	10,978							
13	7,044							
14	2,088							
15	5,694							
16	3,044							
17	2,053							
18	325							
19	1,122							
20	813							
21	746							
22	835							
23	961							
24	608							
25	487							
26	248							
27	1,433							
28	427							
29	295							
30	483							
31	250							
Sept 1	251							
2	310							
3	310							
4	284							
5	408							
6	356							
7	267							
Total	563,956	65	1,087	20	57			

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
June 17	5							
18	1							
19	7							
20	5							
21	66							
22	90							
23	325							
24	624							
25	1,484							
26	2,754							
27	2,720							
28	2,791							
29	3,330							
30	5,770							
July 1	8,882							
2	8,763							
3	9,219							
4	8,648							
5	8,644							
6	13,979							
7	15,202							
8	18,022							
9	18,743							
10	15,693							
11	13,300							
12	6,627							
13	15,013							
14	19,563							
15	31,906							
16	24,383							
17	18,467							
18	13,090							
19	8,136							
20	9,064							
21	12,013							
22	10,646							
23	5,717							
24	9,494							
25	8,114							
26	22,522							
27	20,027							
28	18,754							
29	16,737							
30	15,809							
31	13,626							
Aug 1	12,503							
2	10,483							
3	9,817							
4	9,446							
5	6,992							
6	7,793							
7	7,363							
8	7,320							
9	8,157							
10	8,153							
11	8,153							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Aug 12	8,153							
13	8,153							
14	8,153							
15	8,153							
16	7,244							
17	5,034							
18	3,046							
19	1,327							
20	1,847							
21	1,148							
22	1,516							
23	895							
24	169							
25	672							
26	791							
27	413							
28	132							
29	486							
30	742							
31	575							
Total	613,604	27	1,206	31	42			
1932								
July 5	10							
6	45							
7	1,033							
8	1,628							
10	2,647							
11	1,884							
12	2,197							
13	1,880							
14	1,061							
15	2,449							
16	2,017							
17	5,607							
18	4,857							
19	3,193							
20	1,328							
21	818							
22	431							
23	147							
24	1,286							
25	2,915							
26	5,067							
27	3,628							
28	4,394							
29	2,047							
30	1,630							
31	702							
Aug 1	785							
2	792							
3	2,000							
4	2,262							
5	2,264							
6	4,281							
7	5,309							
8	7,170							
9	8,291							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1932								
Aug 10	7,510							
11	5,077							
12	4,462							
13	5,889							
14	5,212							
15	2,346							
16	1,982							
17	2,565							
18	2,428							
19	1,223							
20	979							
21	691							
22	295							
23	310							
24	392							
25	148							
26	414							
27	39							
28	831							
29	163							
30	100							
31	55							
Sept 1								
2	33							
3								
4	15							
5	55							
6	27							
7	18							
Total	131,551	80	2,015	15	93			

(Approximate Location) Barrier Falls
HT
Rapids Area
Game Trail
N
0.25 Mile

141-20 FROSTY CREEK ADF STAT. No. WR 16
56°03.8' N. 131°57.3' W. Previous No. 19

WRANGELL, SEWARD PASSAGE, FROSTY BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Normal range. Observed temperatures: 52°F., 9/3/52; 50.5°F., 9/15/52; 52.5°F., 9/19/52; 54°F., 9/4/53; 53°F., 9/13/53.
VALLEY DESCRIPTION A stream-cut valley.
DRAINAGE 15 square miles (polar planimeter). Drains three small lakes three-fourths mile above the falls. Numerous scattered ponds are also found in the drainage area.
STREAM MOUTH IDENTIFICATION A short rapids with large boulders is just above the tidal flats.
ANCHORAGE Two rocks lie 150 yards northward of the S. point of the entrance. Anchor in 6 fathoms in the SW. part of the bay.
TRAILS AND SURVEY ROUTES Can be waded in most places. A fair game trail follows the right bank.
AERIAL SURVEY NOTES Difficult due to brushy overstory.

INTERTIDAL ZONE

LENGTH 150'. AVERAGE WIDTH/DEPTH 60'/10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Schooling occurs off the mouth and in several pools in this zone.
SPAWNING AREAS Limited spawning facilities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile. AVERAGE WIDTH/DEPTH 30'/6"-24".
GRADIENT AND VELOCITIES Variable--slight to very steep.
BOTTOM Gravel, coarse sand, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A series of falls 300 yards above the high tide mark are impassable to salmon.
TRIBUTARIES
SCHOOLING AREAS Holes just below the falls.
SPAWNING AREAS The best spawning area is just above the high tide mark.
GENERAL NOTES

ADF STAT. No.
WR 16
Previous No. 19

141-20 FROSTY CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 11	G 0.2	FRI						No fish observed
Sept 15	G 0.1	FRI	1,225	388	8	3		Excellent pink showing
1950								
Sept 26		FWS	300		200			
1951								
July 14	G 1.2	FRI	10,780	42	20	0		
Sept 3	0.2	FWS	50				3 reds	
Sept 24	G 0.2	FRI	1,400	200	100	0		
1952								
Sept 15	G 0.2	FRI	56	5	16	0		
Sept 19	G 0.2	FRI	46	9	1	0		
1953								
July 20	A 0.5	FWS						No salmon observed
Aug 5	A 0.5	FWS						No salmon observed
Sept 4	A 0.5	FWS	150	0	103	0		
Sept 13	A 0.2	FRI	55	2	25	2		Poor visibility
1954								
Aug 8		FWS						No salmon observed
1955								
Sept 1	G 0.2	FWS						1 dead pink on bank
1956								
Sept 11	A to lake	FWS	3,000					
Sept 17	A length	FWS					100 reds	
Sept 21	G falls	FWS	4,000		500			
1957								
Aug 13	G 0.5	FWS	30					
Sept 4	G 0.2	FWS	230		10			
1958								
Aug 9	G mouth	FWS						No salmon observed
Sept 19	A 1.0	FWS						No salmon observed
1959								
Aug 14	G to falls	FWS						No salmon observed
Oct 7	G to falls	FWS	115	70				
1960								
	Not surveyed							
1961								
Aug 2	A length	ADF						No salmon observed
1962								
July 8	G mouth	ADF						Jumps at mouth
Sept 4	A	ADF						No salmon observed
1963								
July 27	G 0.7	ADF						No salmon observed

141-20
SANTA ANNA CREEK
WR17
HT
N
0.25 Mile

141-20 SANTA ANNA CREEK ADF STAT. No. WR 17
55°58.5' N. 131°56' W. Previous No. 20

WRANGELL, SEWARD PASSAGE, SANTA ANNA INLET, Head.

MAJOR SPECIES Pink. OTHER SPECIES Trout, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Observed temperatures: 48.5° F., 9/24/51.
VALLEY DESCRIPTION
DRAINAGE Drains Lake Helen, a small lake 0.25 mile upstream. Several other small lakes drain into Lake Helen.
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchor at the head of the inlet.
TRAILS AND SURVEY ROUTES Wadeable.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 100 feet. AVERAGE WIDTH/DEPTH 30'/14".
GRADIENT AND VELOCITIES Steep
BOTTOM Boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION Edge of woods.
SCHOOLING AREAS Off mouth.
SPAWNING AREAS Poor.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile. AVERAGE WIDTH/DEPTH 20'/12".
GRADIENT AND VELOCITIES Steep; cascades.
BOTTOM Small and large rocks in creek.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Series of pools.
SPAWNING AREAS A limited amount of spawning ground is found near the mouth, but from there to the lake the bottom is coarse.
GENERAL NOTES This stream has had a poor run for a number of years.

ADF STAT. No.
WR 17
Previous No. 20

141-20 SANTA ANNA CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1935								
Sept 19	G	FWS						This stream has had a poor run for a number of years
1951								
Sept 24	A 2.0	FRI	200					Few chums. Some dead pinks
1953								
July 20	A 2.0	FWS						No salmon observed
Aug 24	A 2.0	FWS						No salmon observed in mouth of stream, lake, tributaries of lake or inlet
Sept 9	A 2.0	FWS						No salmon observed
Oct 6	A 0.1	FWS						High water. No dead fish
1954								
Sept 10		FWS						Good
1955								
Aug 24		FWS						No salmon observed
Sept 9	0.5	FWS						No salmon observed
Oct 6	0.1	FWS						No salmon observed
1956								
Sept 11	A to lake	FWS	3,000					
Sept 21	G to lake	FWS	800					Cohos off mouth. No dead
1957								
Sept 14	G to lake	FWS	200					
1958								
Sept 19	A 2.0	FWS	150					
1959								
	Not surveyed							
1960								
	Not surveyed							
1961								
Aug 2	A length	ADF						No salmon observed
1962								
July 8	G to lake	ADF						No salmon observed
Sept 4	A mouth	ADF						500-600 at mouth

ADF STAT. No.
WR 18

141-20 SUNNY CREEK Previous No. 21
55°57.7' N. 131°57.9' W.

WRANGELL, SEWARD PASSAGE, SUNNY BAY, Head.

MAJOR SPECIES Coho. OTHER SPECIES Pink, chum.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE A small lake one-fourth mile from the beach is the source of this stream.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 50 yards. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS

SPAWNING AREAS

GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile. AVERAGE WIDTH/DEPTH 4'/8".
GRADIENT AND VELOCITIES Steep.
BOTTOM Bedrock and sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS

SPAWNING AREAS

GENERAL NOTES

ADF STAT. No.
WR 18

141-20 SUNNY CREEK Previous No. 21

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 16	G 0.2	FRI						Apparently not a salmon stream
1951								
Sept 17-27	1.0	FWS	8,000		200		5 cohos	
1953								
Sept 27		FWS	2,050					
1954								
Sept 15	mark	FRI	800		15			
Sept 27	mark	FRI	2,050					
1955								
Aug 24		FWS						No salmon observed
Sept 16	A mark	FRI	400					
Sept 23	A mark	FRI	1,500					
Sept 29	A mark	FRI	600					
1956								
Sept 9	A mark	FRI	3,000					>7,000 at mouth
Sept 10	A 1.0	FWS	2,500					
Sept 21	G 1.0	FWS	155,000		100			Many dying pinks
Sept 28	A mark	FRI	10,000					Many dead
1957								
Sept 13	G 1.5	FWS	52		24			
Sept 22	A mark	FRI	500					
Sept 27	A mark	FRI						No salmon observed
1958								
Sept 7	G mark	FWS	300					
Sept 19	A 2.0	FWS	350					
Sept 26	G 0.3	FWS	11		3			
1959								
	Not surveyed							
1960								
	Not surveyed							
1961								
	Not surveyed							

141-20
WR 19
0.25 Mile
HT

141-20
55°57.8' N. 132°00.5' W.

ADF STAT. No.
WR 19
Previous No. 22

WRANGELL, SEWARD PASSAGE, 1.5 miles E. of Watkins Pt.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Normal range. Observed temperatures: 48°F., 9/12/50; 54°F., 9/17/51; 45°F., 9/27/51; 50°F., 10/8/51; 51°F., 7/3/52; 48°F., 9/8/52; 50.5°F., 9/15/52; 52.5°F., 9/19/52; 48°F., 10/6/52; 54°F., 9/4/53; 53°F., 9/13/53; 50.5°F., 9/18/53.
VALLEY DESCRIPTION Glacial origin. There are large open muskeg areas along both sides of the stream.
DRAINAGE Numerous ponds are scattered throughout the valley. Drains a large area of muskeg.
STREAM MOUTH IDENTIFICATION Lies at the head of the first large bight W. of Change Island. The stream course almost parallels the beach in its lower reaches and the mouth is barely visible from the bay.
ANCHORAGE Good anchorage can be found in any of the small bays on either side of the creek mouth or just off the mouth.
TRAILS AND SURVEY ROUTES Easy to travel at normal water levels. Ill-defined game trails follow the margins.
AERIAL SURVEY NOTES Good visibility.

INTERTIDAL ZONE

LENGTH 450 yards. AVERAGE WIDTH/DEPTH 20'-30'/6"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large rocks and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A small deep pool at the midtide mark.
SPAWNING AREAS The upper 300 yards is a good gravel riffle, while the lower portion is mainly large rock and some gravel.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/4"-6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large rock, rubble, gravel, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None.
SCHOOLING AREAS A few pools are found throughout the distance surveyed.
SPAWNING AREAS Spawning areas are limited to the small pockets between the boulders and to a few fast riffles.
GENERAL NOTES One-half mile upstream, the stream enters a bedrock canyon. There are no spawning facilities available in this area.

ADF STAT. No.
WR 19
Previous No. 22

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 12	G 1.0	FRI	628	41	11	3		
Sept 16	G 1.0	FRI	2,400	53	97	8	6 cohos	Excellent showing
Sept 25	G 0.6	FRI	122	12	3	0		
1951								
Sept 17	G 1.0	FRI	1,070	30	60	2		Half spawning. 3,500 off mouth
Sept 27	G 1.0	FRI	7,400	215	150	20	5 cohos	75 per cent pinks spawning
Sept 27	G 1.2	FRI	700	0	0	0		
Oct 8	G 1.0	FRI	1,650	235	17	2		All pinks and chums spawning
1952								
Sept 3	G 1.0	FRI	48	0	28	0		
Sept 8	G 1.0	FRI	65	0	0	0		
Sept 15	G 1.0	FRI	102	0	4	0		
Sept 19	G 1.0	FRI	99	4	0	0		
Oct 6	G 1.0	FRI	0	1	4	0		
1953								
Aug 5	A 1.0	FWS						No salmon observed
Sept 4	G 1.0	FRI	147	1	57	0		
Sept 13	G 1.0	FRI	90	0	62	1		Poor visibility
Sept 18	G 1.0	FRI	90	2	70	2		
1954								
Sept 15	G 1.0	FRI	800	0	15	0		2,000 off mouth
Sept 27	G 1.0	FRI	2,050	0				Few pinks and chums. None off mouth
1955								
Sept 16	G 1.0	FRI	400	0	0	0		
Sept 23	G 1.0	FRI	1,500		0	0		Some dead pinks
Sept 28	G 1.0	FRI	600					Some dead pinks. Few live chums
1956								
Sept 9	A 1.0	FRI	3,000	0	0	0		>7,000 at mouth
Sept 23	A 1.0	FRI	10,000		0	0		Few dead pinks
Sept 28	A 1.0	FRI	10,000	0				Some chum present. Few at mouth
1957								
Sept 7	A 1.0	FRI	4,007					None observed off mouth
Sept 22	A 1.0	FRI	500	0				Few chums observed
Sept 27	A 1.0	FRI						None observed off mouth
1958								
Sept 7	A 1.0	FWS	200					Poor visibility. Spawning in intertidal zone
1959								
Aug 19	A 0.5	FWS						No salmon observed
1960								
	Not surveyed							
1961								
	Not surveyed							

141-30 EMERALD CREEK ADF STAT. No. WR 20
55°53.0' N. 132°02.3' W. Previous No. 24

WRANGELL, ERNEST SOUND, EMERALD BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES
VALLEY DESCRIPTION A broad, flat valley with open muskeg areas.
DRAINAGE Two miles upstream, the creek breaks into many muskeg creeks.
STREAM MOUTH IDENTIFICATION Flows through a tidal flat 0.4 mile long, constricted at its entrance to salt water.
ANCHORAGE Emerald Bay is used during E. winds, but it is a poor anchorage.
TRAILS AND SURVEY ROUTES Should be surveyed on a floodtide when a skiff can be taken about 0.5 mile upstream.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 20'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Very few pools deep enough to allow fish to school.
SPAWNING AREAS The entire stream is reported to have good spawning facilities.
GENERAL NOTES

ADF STAT. No.
WR 20
Previous No. 24

141-30 EMERALD CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1947								
Aug 21	1.0	FWS						300 chums
Oct 7	A	FWS						Pink excellent
1954								
Sept 10	A	FWS	300					
1955								
Aug 24	A length	FWS						No salmon observed
Sept 9	G 1.2	FWS	600					
1956								
Sept 11	A 0.5	FWS	300					
Sept 21	G 0.7	FWS	8,500		450			
1957								
Aug 13	G 1.0	FWS						No salmon observed
Aug 27	A 1.0	FWS			1			
Sept 13	G 1.5	FWS	46		68			
1958								
July 31	G mouth	FWS						No salmon observed
Aug 30	A 2.0	FWS						No salmon observed
Sept 26	G mouth	FWS						No salmon observed
1959								
	Not surveyed							
1960								
	Not surveyed							
1961								
	Not surveyed							
1963								
Aug 7	A	ADF						1,000 in intertidal zone; 500 at mouth

141-30 VIXEN CREEK ADF STAT. No. WR 22
55°57.2' N. 132°00.2' W. Previous No. 26

WRANGELL, ERNEST SOUND, VIXEN INLET, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair to good.
STREAM TEMPERATURES
VALLEY DESCRIPTION Glacial origin. Surrounded by snow-capped mountains.
DRAINAGE Drains a lake 2.3 miles upstream. The lake has numerous tributaries which appear to be fed by snowmelt.
STREAM MOUTH IDENTIFICATION
ANCHORAGE The inlet affords good anchorage. Use the channel southward of Sunshine Island when entering. The head of the inlet dries for a good distance.
TRAILS AND SURVEY ROUTES Easily surveyed at any stage of the tide, but at high tide a skiff may be taken upstream.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 50'-70'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and shale.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 25' stepped falls 1 mile above the mouth is a total block to salmon passage.
TRIBUTARIES None reported.
SCHOOLING AREAS A large pool below the falls.
SPAWNING AREAS Almost the entire area from the high tidemark to the falls offers good spawning facilities.
GENERAL NOTES

ADF STAT. No.
WR 22

141-30 VIXEN CREEK Previous No. 26

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1942								
Oct 6	0.2	FWS	1,000		200			Showing
1947								
Oct 7	A	FWS						Pink excellent
Oct 10		ASI						Poor visibility
1951								
Sept 2	0.5	FWS	261		6		4 reds	
1953								
Aug 5	A length	FWS						100 below falls
1954								
Aug 7-Sept 10		FWS						No salmon observed
1955								
Aug 24		FWS						No salmon observed
Sept 8		FWS	350		350			
1956								
Sept 11	A 1.0	FWS	10,000					
Sept 20	G 1.0	FWS	20,000-30,000		500			
1957								
Aug 13	G 0.5	FWS	34					
Sept 13	G to falls	FWS	600		200	150		
1958								
Sept 19	A length	FWS	3,500		1,000			
Sept 26	A 1.0	FWS	500					
Sept 26	G 0.5	FWS						No salmon observed
1959								
Aug 19	A to falls	FWS						No salmon observed
Sept 3	A to falls	FWS						No salmon observed
1960								
	Not surveyed							
1961								
	Not surveyed							
1963								
Aug 7	A 1.0	ADF						Few pinks; few at mouth
Aug 21	G to lake	ADF						2 jumps at mouth; 1 jump in lake; low water makes falls impossible to jump

142-60
56° 20.4' N. 132° 08' W.

ADF STAT. No.
WR 23
Previous No. 31

WRANGELL, EASTERN PASSAGE, in cove 2 miles SE. of Channel L

MAJOR SPECIES Pink.
OTHER SPECIES Chum and coho.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 15'-20'/12".
GRADIENT AND VELOCITIES Moderate--swift.
BOTTOM Fair gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A large, rocky stream with numerous large boulders.

ADF STAT. No.
WR 23

142-60 ESCAPEMENT RECORD Previous No. 31

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 24	0.5	FWS	2,750	71	1			
1953								
Aug 5	A 1.0	FWS						No salmon observed
Sept10	A 1.0	FWS						No salmon observed, water black
1955								
Aug 24	A 0.7	FWS						No salmon observed
Aug 31	G 0.7	FWS						No salmon observed
1956								
Aug 14	G 0.7	FWS						No salmon observed
Sept 12	A length	FWS	300					
1957								
July 30	A 5.0	FWS						No salmon observed
1958								
July 13	G mouth	FWS						No salmon observed
Aug 27	A 2.0	FWS						No salmon observed
1959								
Aug 4	A 0.5	FWS						No salmon observed
Aug 19	A 0.7	FWS						No salmon observed
1960								
	Not surveyed							
1961								
	Not surveyed							

ADF STAT. No.
141-10 WR 24
56°13.8' N. 132°02.5' W. Previous No. 32

WRANGELL, ERNEST SOUND, FOOLS INLET, E. head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good, but limited.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Glacial origin.
DRAINAGE 0.65 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION Small stream entering at high tide line. Easily missed at low water.
ANCHORAGE Anchorage may be had southward of the two small islands near the head of the inlet.
TRAILS AND SURVEY ROUTES Easily surveyed. Good game trails along the banks. Take a skiff upstream as far as possible, but beware of being stuck on an outgoing tide.
AERIAL SURVEY NOTES Poor for aerial survey due to heavy overstory.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 50'/3"-36".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel, rock, and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS At the upper limits of the intertidal area.
SPAWNING AREAS The upper one-eighth has good spawning gravel; this section is heavily utilized by pinks.
GENERAL NOTES The entire section to marker is affected by extreme high tide of 16' and over.

UPSTREAM

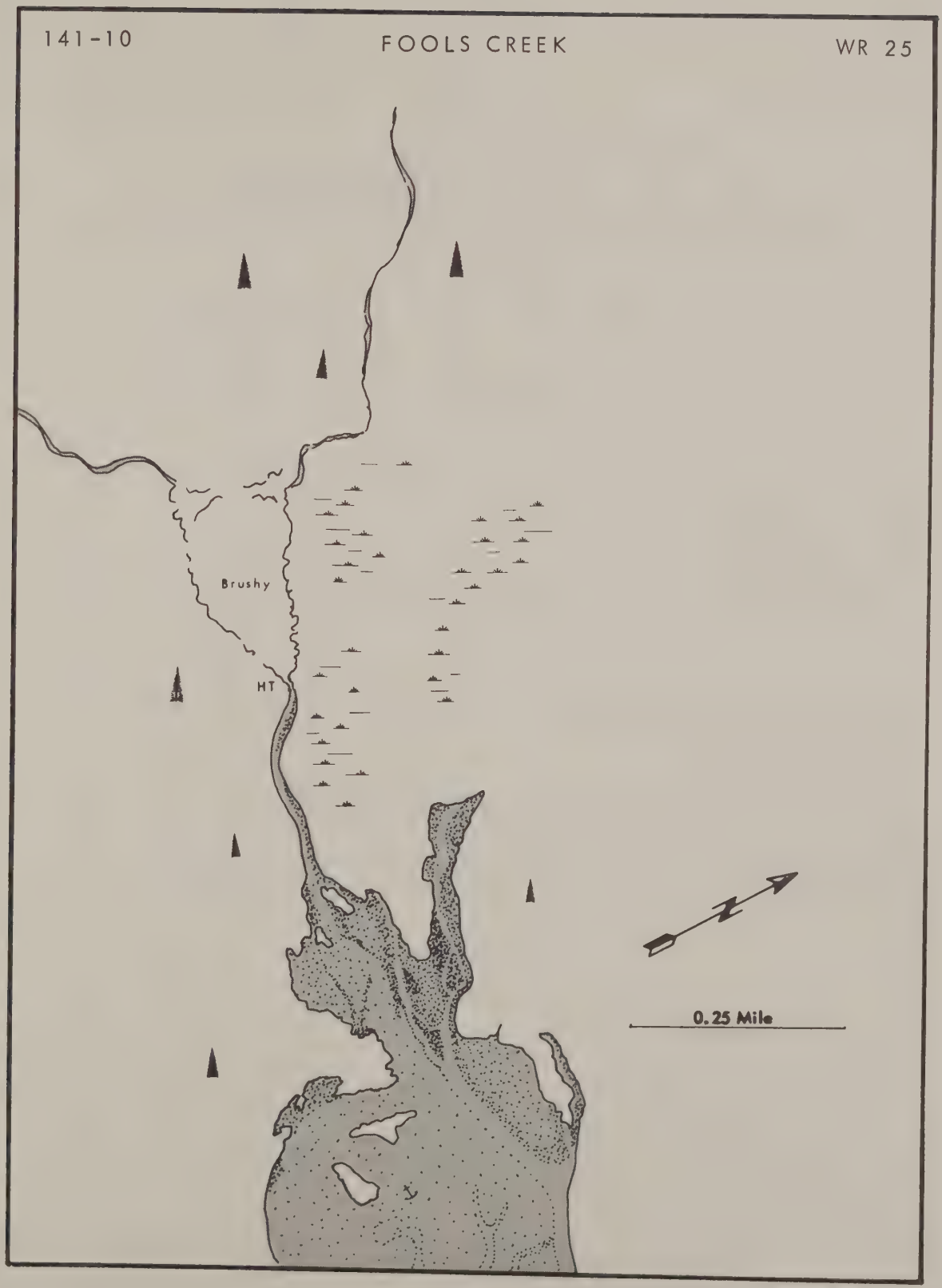
LENGTH ACCESSIBLE 0.1 mile. AVERAGE WIDTH/DEPTH 10'-20'/8"-16".
GRADIENT AND VELOCITIES Slight
BOTTOM Coarse grave and sand grading into hard shale rock 1.5 miles up.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES The intertidal zone joins that of a neighboring stream near the high tide mark.
SCHOOLING AREAS The entire area surveyed consists largely of pool areas.
SPAWNING AREAS Very little spawning area available upstream. Left fork has 1.5 miles spawning area.
GENERAL NOTES

ADF STAT. No.
WR 24

141-10 ESCAPEMENT RECORD Previous No. 32

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1951								
July 30	G 0.1	FRI	90	0				
Aug 6	G 0.1	FRI	300	0				
Aug 14	G 0.1	FRI	200	0				
Aug 22	G 0.1	FRI	225	10				
Sept 4	G 0.1	FRI	700	40				
Sept 14	G 0.1	FRI	1,300	130				
Sept 23	G 0.1	FRI	750	180				
Sept 28	G 0.1	FRI	1,250	0				
1954								
Aug 9		FWS	3,000					
Sept 7	mark	FRI	4,200					
Sept 10		FWS	20,000					
Sept 15	mark	FRI	4,500					
1955								
Aug 24		FWS	500		100			
Sept 1	G	FWS	500					
Sept 5		FRI	7,000					
1956								
Aug 10	G 1.5	FWS	30					
Aug 14	A 0.7	FWS	200					
Sept 4	A length	FWS	200					
Sept 11	A 0.5	FWS	200					
Sept 17	A length	FWS	300					
1957								
Aug 7	A 1.5	FWS						No fish observed
Aug 14	G 0.2	FWS						No fish observed
Aug 18	A length	FWS	100					
1958								
July 30	A 2.0	FWS						No fish observed
Aug 2	G	FWS	500					
Aug 14	G 0.7	FWS	400					
Aug 16	G 0.1	FWS	200					
Aug 20	G 0.5	FWS	500					
Aug 22	A 0.2	FWS	500					
Aug 30	A 2.0	FWS						500 pinks at mouth
1959								
Aug 1	G 0.2	FWS						No fish observed
Aug 19	A 2.0	FWS						No fish observed
Sept 17		FWS	250					None seen above intertidal
Oct 5	G 0.2	FWS						No fish observed
1960								
	Not surveyed							
1961								
Sept 13	G 0.5	ADF	300	many	few		1 red	Old fish, mostly spawned
1962								
Aug 21	A 1.0	ADF	1,500					5,000 in intertidal zone
Aug 30	A 2.0	ADF	8,000					20,000 in intertidal zone
1963								
July 27	G 0.7	ADF	0		2			Spawning


Brushy
HT
N
0.25 Mile

141-10 FOOLS CREEK ADF STAT. No. WR 25
56°14' N. 132°03.7' W. Previous No. 33

WRANGELL, ERNEST SOUND, FOOLS INLET, W. head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent in the area below the forks. Poor above the forks.
STREAM TEMPERATURES Normal range. Observed temperatures: 53°F., 8/23/52; 54°F., 8/26/52; 48°F., 9/8/52; 51°F., 9/17/52; 55°F., 8/14/53; 54.5°F., 8/21/53.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 17.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters Fools Inlet W. of WR 25. The mouth lies very close to that of WR 25.
ANCHORAGE Refer to WR 24.
TRAILS AND SURVEY ROUTES An easy stream to walk. Bear trails follow the banks.
AERIAL SURVEY NOTES Aerial visibility is very good.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 30'-50'/12"-24".
GRADIENT AND VELOCITIES Slight to moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two pools just below the high tide mark offer schooling facilities.
SPAWNING AREAS The upper 500 yards is used extensively by pinks and offers excellent spawning facilities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2.5 miles. AVERAGE WIDTH/DEPTH 60'/10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Broken rock and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS The S. fork has an impassable falls 1 mile from the high tidemark.
TRIBUTARIES The stream splits near the upper end of the intertidal zone.
SCHOOLING AREAS Several excellent deep holes.
SPAWNING AREAS Both forks consist largely of boulders and rock and do not provide the excellent spawning gravel available in the intertidal zone. Fish do spawn heavily just above the forks.
GENERAL NOTES

ADF STAT. No.
WR 25

141-10 FOOLS CREEK Previous No. 32-33

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 11	G 0.1	FRI						Too early
Sept 11	G 0.1	FRI	2,300	500	0	0		
1950								
July 11	G 0.7	FRI	0	0	0	0		
July 31	G 0.7	FRI	0	0	0	0		
Aug 17	G 0.7	FRI	781	2	114	2		
Sept 10	G 0.7	FRI	2,452	262	49	3	1 coho, 1 red	
Sept 24	G 0.7	FRI	158	914	1	0		Many dead washed out
1951								
July 30	G 0.7	FRI	4,000	0	0	0		
Aug 6	G 0.7	FRI	2,800					Some dead pinks. Few chums
Aug 14	G 0.7	FRI	3,750	20	21	10		Schooled
Aug 22	G 0.7	FRI	5,515	80	14	12		
Aug 24	1.0	FWS	8,000		30			1,000 at mouth, left branch
Aug 24	0.2	FWS	780	46	10			Right branch
Aug 25	A 1.0	FRI						Some pinks present
Sept 4	G 0.7	FRI	7,850	2,325	25	37		Some fresh pinks
Sept 14	G 0.7	FRI	6,000	2,000	50	0	30 cohos	
Sept 17	G 0.7	FRI	14,000		200	0	85 cohos, 1 red	Many dead pinks
Sept 17	G 1.0	FRI	700		25	0	5 cohos	Few dead pinks
Sept 23	G 0.7	FRI	1,680	1,700	15	0		
Sept 28	G 0.7	FRI	9,050	1,500	115		25 cohos	Dead chums. 60% spawning
Oct 8	G 0.7	FRI	830	290	0	0	11 cohos	Pinks spawning
1952								
Aug 23	G 0.5	FRI	386	0	40	0		Visibility poor
Aug 26	G 0.5	FRI	1,171	0	106	0		
Aug 30		FWS	1,670	0	25	0		
Sept 17	G 0.5	FRI	264	17	10	0		
Sept 8	G 0.5	FRI	715	0	0	0		
1953								
July 24	G 0.5	FWS						500 at mouth of stream #33
July 30	G 0.5	FRI	700	0	100	0		
Aug 5	G 0.5	FWS	75	0	75	0		
Aug 5	G 0.5	FWS						No salmon observed
Aug 14	G 0.7	FRI	855	0	113	0		
Aug 21	G 0.7	FRI	822	6	313	12		
Sept 10	G 0.7	FRI	516	13	104	0		
Sept 21	G 0.7	FRI	890	18	137	13		
1954								
Aug 9	1.2	FWS	4		1			
Sept 7	G 0.5	FRI	4,200		0			Few dead pinks
Sept 15	G 0.5	FRI	4,640	130	20	1		
Sept 17	G 0.5	FRI	400		0			Some dead pinks. None off mouth
1955								
Aug 24	A 0.5	FRI	1,000	0	0	0		2,000 at mouth
Aug 25	A 0.5	FWS	500	0	100	0		300 salmon in intertidal zone
Sept 1	G 1.5	FWS	200	0	25	0		

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1956								
Aug 10	G 1.5	FWS	200					
Sept 4	A 1.5	FWS	1,000					
Sept 6	G 1.0	FWS	15,000					
Sept 7	A mark	FRI	17,000					
Sept11	A 0.5	FWS	12,000					
Sept17	A length	FWS	3,000					
1957								
Aug 14	G 1.0	FWS			10			
Aug 18	A length	FWS			100			
Aug 25	A mark	FRI	300					
Aug 30	G 0.7	FRI-FWS	145		130			
Sept 2	A mark	FRI	300					
Sept 11	G 0.7	FRI-FWS	90		29			
1958								
Aug 2	G	FWS	500					
Aug 11	G 1.0	FRI						None seen off mouth
Aug 14	G 0.7	FWS	400					
Aug 16	G 0.1	FWS	200					
Aug 20	G 0.5	FWS	500					
Aug 22	A 0.2	FWS	500					
Aug 25	A 1.0	FRI	1,000		0			None seen off mouth
Sept 17	A 1.0	FRI						None seen off mouth
1959								
Aug 1	G 0.2	FWS						No salmon observed
Aug 10	A 0.5	FWS			50			
Aug 19	A 1.0	FWS			300			
Sept 17	G 0.5	FWS	2,100					900 in intertidal zone
Oct 5	G 0.5	FWS	120					
1960								
	Not surveyed							
1961								
Aug 26	A 1.0	ADF	few					Water very dark
Sept13	G 1.0	ADF	2,000		few			2,200 pinks in intertidal zone. All old fish mostly spawned out
1962								
Aug 21	A 1.0	ADF						5,000 in intertidal zone
1963								
July 7	G 0.7	ADF	800		20			380 pinks in intertidal zone
July 27	G 0.7	ADF						No salmon observed

141-10 SOUTHEAST CREEK ADF STAT. No. WR 26
56°09.0' N. 132°03.5' W. Previous No. 34

WRANGELL, CLARENCE STRAIT, ERNEST SOUND, SOUTHEAST COVE; Head.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 5.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM Very rocky. Many large boulders for first 0.25 mile.
HIGH TIDE LOCATION
LOW TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Above falls stream levels off into a series of good to excellent spawning areas.
GENERAL NOTES

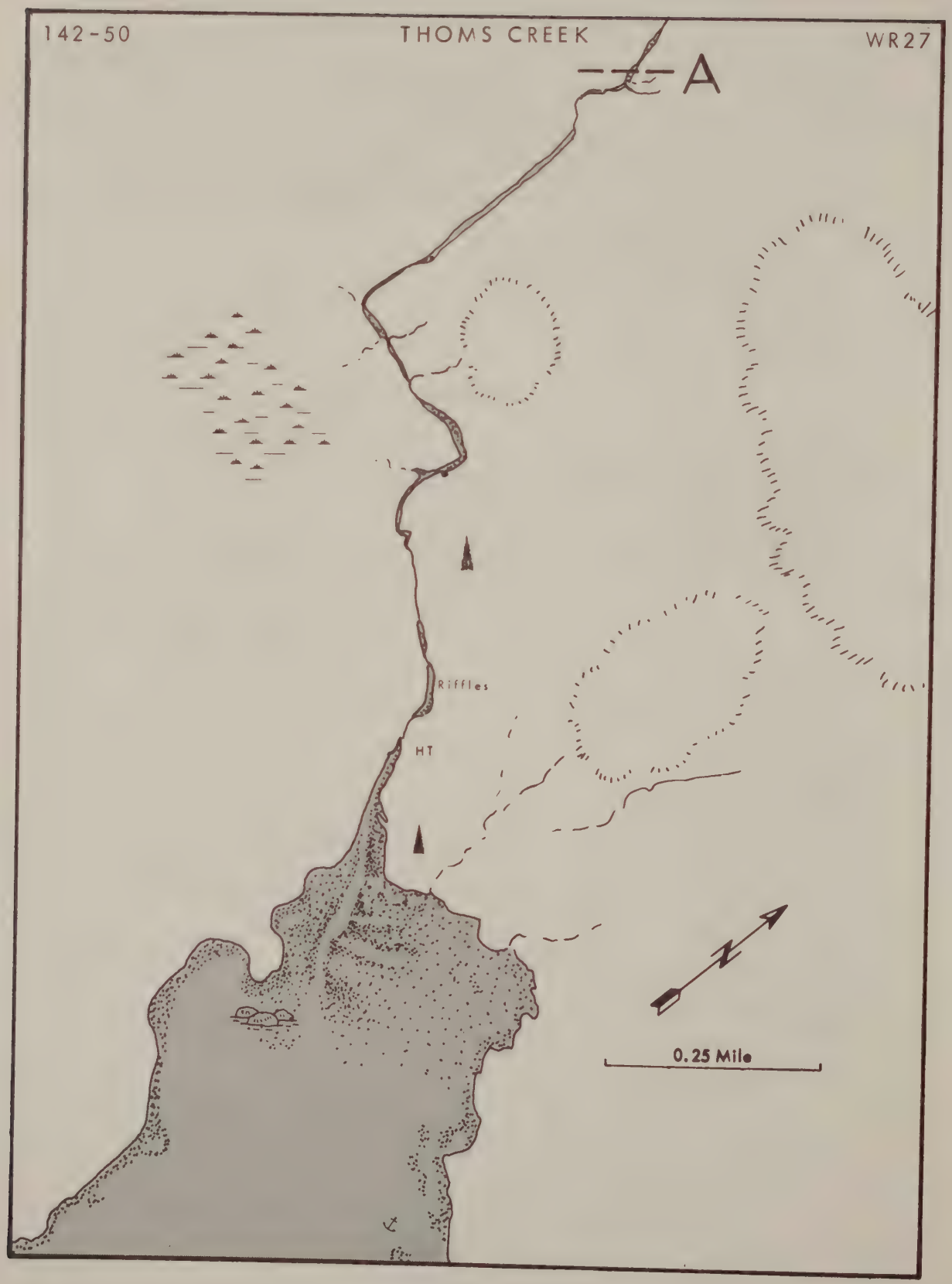
UPSTREAM

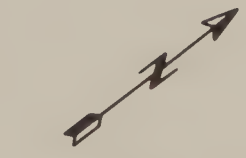
LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 3	G 0.7	FRI	171	33	12	2	4 reds	
1960	Not surveyed							
1961	Not surveyed							


142-50
THOMS CREEK
WR27
A
Riffles
HT
0.25 Mile



0.25 Mile

Good Spawning
Entire Stream Length
To Lake (5 Miles)

142-50 THOMS CREEK ADF STAT. No. WR 27
56°11.1' N. 132°08.81 W. Previous No. 35

WRANGELL, ZIMOVIA STRAIT, THOMS PLACE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, red.
ESCAPEMENT TIMING Middle Aug.-Sept. ESCAPEMENT MAGNITUDE Est. 15,000 8/15.
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. Observed temperatures: 63°F., 8/15/50; 61.5°F., 8/2/52; 67°F., 8/14/52; 56°F., 9/2/52; 51°F., 9/11/52; 68°F., 8/2/53; 55°F., 8/10/53; 59.5°F., 8/20/53; 55.5°F., 9/1/53.
VALLEY DESCRIPTION
DRAINAGE 15.8 square miles. Drains Thoms Lake. Fed also by several other small lakes.
STREAM MOUTH IDENTIFICATION A broad tideflat with a heavily wooded margin.
ANCHORAGE When entering, pass between the wooded islands in the entrance. The head of the bay is foul. Anchor just inside the islands.
TRAILS AND SURVEY ROUTES During periods of low and normal water levels, the stream margin is easy to travel; however, during high water travel is difficult. A trail follows the left bank to the lake. Bear toward the stream when crossing the muskeg.
AERIAL SURVEY NOTES Aerial survey difficult due to overstory, meandering streambed, and rushing water.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 40'-50'/8".
GRADIENT AND VELOCITIES Slight to moderate.
BOTTOM Broken shale and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Large pool middle of intertidal area is used extensively.
SPAWNING AREAS The upper 200 yards seems to be suitable for spawning, but spawning has not been reported to take place in this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 6 miles. AVERAGE WIDTH/DEPTH 40'-50'/6"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Broken shale, boulders, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Forks 1.8 miles upstream. The W. fork drains a lake about 3 miles above the confluence.
TRIBUTARIES None reported.
SCHOOLING AREAS Very few schooling areas. Above the 1 mile mark, there are occasional pools.
SPAWNING AREAS Spawning occurs in all riffle areas. Spawning area is somewhat limited.
GENERAL NOTES

142-50 THOMS CREEK

ADF STAT. No. WR 27
Previous No. 35

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
July 11	G 2.0	FRI						Too early
Sept 13	G 2.0	FRI		146	0	0		High water
1950								
July 26		FWS					5,000 reds	
Aug 15	G 0.5	FRI	0		0			Exploratory survey
1952								
Aug 2	G 2.0	FRI	0		0		200 reds	24 dead reds
Aug 14	G 2.0	FRI	0		0		200 reds	
Aug 23	G 0.6	FRI	0		0			
Aug 30	0.3	FWS	195					
Sept 2	G 2.0	FRI	39		0			
Sept 11	G 2.0	FRI	45		0			
1953								
July 26	G 0.2	FWS	200		0			Fish going up
Aug 2	G 2.0	FRI	725		0		18 reds	
Aug 10	G 2.0	FRI	2,322		4		704 reds	
Aug 20	G 2.0	FRI	1,073		40			
Sept 1	G 2.0	FRI	1,469	55	15	0		
Sept 23	A 2.0	FWS						Few bright cohos
1954								
July 6-30		FWS						No salmon observed
1955								
July 29	G 0.2	FWS	0		0			Fair
Aug 2	G 0.2	FWS	0		0			
Sept 2	G 1.2	FWS	50					
1956								
July 9	A	FWS					2,000 reds	Off mouth
Aug 1	G	FWS					3,500 reds	
Aug 15	G	FWS						2,000 fish in bay
Aug 24	A	FRI	300					
Aug 26	tributary	FWS					5,000 reds	
Aug 30	G	FWS						12,000-15,000 red 1956 escapement. Poor spawning facilities
Sept 17	A length	FWS	300					Stream low
Sept 21	G 0.7	FWS	2,500					750 dead
1957								
Aug 30	G 1.0	FWS-FRI	504	0	13	0		Fair
1958								
July 23	G 1.0	FWS						Good showing at mouth
July 25	G 1.2	FWS						800 fish present
July 27	G 1.2	FWS						1,000-1,500 at head of inlet
Aug 25	A mark	FWS	200					
Aug 30	A 4.0	FWS	300					

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
July 7	G 0.7	FWS					500	1,000 reds in bay
July 10	G 0.7	FWS					1,000	
July 12	G 0.7	FWS					500	1,000 reds in bay
July 26	G 1.0	FWS					200	
Aug 12	G 0.7	FWS	1,200					
Aug 17	G 0.7	FWS	300					
Sept 17	G 0.2	FWS	400					Intertidal spawning
1960								
	Not surveyed							
1961								
July 23	A	ADF	1,000					Stream very low All fish at mouth
July 27	A length	ADF	1,000					Stream very low All fish at mouth
Aug 8	G 0.5	ADF						2,500 mixed fish at mouth. 25 dead reds
1963								
July 5	A	ADF						No fish observed
July 15	A mouth	ADF						Few jumps off mouth

ADF STAT. No.
WR
Previous No. 27

142-50 DOG SALMON CREEK
56°15.4' N. 132°24.2' W.

WRANGELL, ZIMOVIA STRAIT, ANITA BAY, N. shore of entrance.

MAJOR SPECIES Chum.
OTHER SPECIES Pink, coho, steelhead.
ESCAPEMENT TIMING Middle.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES
VALLEY DESCRIPTION Drains Anita Lake which lies in a small, steep-sided valley at 1,362 feet.
DRAINAGE Approximately 2 square miles.
STREAM MOUTH IDENTIFICATION Marked by small tidal lagoon and flats.
ANCHORAGE In Anita Bay.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Fair for surveys.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Average discharge estimated 62 c.f.s.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS

SPAWNING AREAS

GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.25 mile to falls.
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Steep near lake.
BOTTOM
MARKER DISTANCE None.
MARKER IDENTIFICATION
BARRIERS 8' falls 0.25 mile from mouth, may be passable. Small falls in upper 1 mile of stream.
TRIBUTARIES
SCHOOLING AREAS

SPAWNING AREAS

GENERAL NOTES Reported to have been good producer in past. 1931 to 1934 FWS annual reports state extremely heavy seedings for this stream. The stream is quite rapid with cascades and small falls in upper 1 mile of stream.

ADF STAT. No.
WR
Previous No. 27

DOG SALMON CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 9	G length	FWS	20		105			
Aug 20	G length	FWS	200		700			
1954								
Sept 16		FWS	150					
1955								
Aug 2	G 0.2	FWS	100					
1956								
July 26	G	FWS			105			
July 27	G	FWS			250			
July 28	G	FWS			1,000			
Aug 7-8	G	FWS			1,500			
Aug 13	G	FWS			6,000			
Sept 8	G	FWS			4,000			
Sept 12	A 2.0	FWS			3,000			
1957								
July 28	G	FWS			100			
Aug 9	A 2.0	FWS			150			
Aug 14	G 0.7	FWS	200		2,000			
Aug 17	A length	FWS			5,000			
1958								
Aug 11	A 0.2	FWS	3,250		100			
Aug 14	G 0.5	FWS			1,500			
Aug 17	G 1.0	FWS	900		300			
Aug 22	A length	FWS	1,000		2,500			
Aug 23	G mouth	FWS						200 pinks, 50 chums at mouth
Aug 25	G 0.7	FWS	1,500		700			
Aug 27	A length	FWS	2,500		150			
Aug 29	G length	FWS	2,000		500			
Sept 7	G 1.0	FWS	360		120	75		
1959								
Aug 2	G 0.7	FWS						No fish observed
Aug 10	A 0.7	FWS						No fish observed
Sept 2	G 0.5	FWS	350		30			
1960								
	Not surveyed							
1961								
Aug 7	Skiff mouth	ADF						2,000 chums at mouth
Aug 8	Skiff mouth	ADF						600 chums at mouth
1962								
July 30	A mouth	ADF						No fish observed
July 30	Skiff mouth	ADF						350 at mouth
Aug 7	A mouth	ADF						300 at mouth

142-50
WR 29
N
0.25 Mile
HT

142-50
56° 12' N. 132° 29.8' W.

ADF STAT. No.
WR 29
Previous No. 40

WRANGELL, ZIMOVIA STRAIT, ANITA BAY, Head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES
VALLEY DESCRIPTION A shallow, heavily timbered valley.
DRAINAGE 11.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters on the N. side of the large mudflat. A wooded point is found just S. of the mouth. Grass flats at mouth.
ANCHORAGE The head of the bay affords fair anchorage in 13 to 17 fathoms.
TRAILS AND SURVEY ROUTES No trails except bear trails follow the streambanks. Wadeable. Downed timber is found along the banks, but the stream is not difficult to wade.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 200 yards.
AVERAGE WIDTH/DEPTH 15'-20'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and coarse rubble.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS School off the mouth in Anita Bay.
SPAWNING AREAS Spawning has not been observed in this zone, but it appears to be suitable for such activities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile.
AVERAGE WIDTH/DEPTH 15'/8"-12".
GRADIENT AND VELOCITIES Moderate - swift.
BOTTOM Small gravel, coarse sand, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Only very small pockets are available for schooling.
SPAWNING AREAS Some fair spawning areas are found in the distance surveyed. The spawning areas are broken by stretches of rubble and boulders.
GENERAL NOTES The stream meanders a good deal and is turbulent in places.

ADF STAT. No.
WR 29

142-50 ESCAPEMENT RECORD Previous No. 40

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 10		FWS	50		1,205			
1951								
Sept 6	0.3	FWS	500		1,000			
1953								
Sept 6	A 0.4	FWS						Few live chums 5,000 dead chums at mouth
1954								
Aug 19	A	FWS			300			
1955								
Aug 2	G 0.2	FWS	100					
1956								
Aug 15	A 3.0	FWS			400			
Sept 12	A 4.0	FWS	3,000					3,000 dead
1957								
July 22	G 0.2	FWS			50			
Aug 7	G 0.2	FWS			375			
Aug 7	A mouth	FWS			400			
Aug 14	G 1.0	FWS	25		298			
Aug 18	A length	FWS			6,000			1,500-2,000 at mouth
1958								
Aug 11	G 0.2	FWS			300			
Aug 14	G 0.5	FWS			500			
Aug 21	G 1.0	FWS			400			
Aug 22	A length	FWS			1,500			500 dead fish
Aug 25	G 1.0	FWS			250			
Aug 27	A length	FWS			1,000			
Sept 6	G 1.5	FWS	10		50	100		
Sept 9	A	FWS	300					Few live chums
Sept 19	A length	FWS	500					
1959								
Aug 2	G 0.7	FWS						No fish observed
Aug 9	G 0.2	FWS			50			
Aug 10	A 0.7	FWS			80			
Sept 10	G 0.2	FWS	65		20			
Sept 30	G 1.0	FWS						No fish observed
1960								
	Not surveyed							
1961								
	Not surveyed							
1962								
July 30	A	ADF			1,000			In intertidal zone
Aug 7	A	ADF						No fish observed

142-50
56°11.1' N. 132°30.6' W.

ADF STAT. No.
WR 30
Previous No. 41

WRANGELL, ZIMOVIA STRAIT, ANITA BAY, W. head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION The stream runs through rolling hills. Largely a muskeg area with some forestation.
DRAINAGE 2.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the bay from the S. and lies at the E. end of the mudflats. Meanders through the upper intertidal zone.
ANCHORAGE Refer to WR 29.
TRAILS AND SURVEY ROUTES No trails. The stream may be waded after you get above the intertidal zone.
AERIAL SURVEY NOTES Poor for aerial survey due to heavy overstory. Intertidal area good.

INTERTIDAL ZONE

LENGTH 200-300 yards. AVERAGE WIDTH/DEPTH 15'-18'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud, large rubble.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The main schooling area is off the mouth.
SPAWNING AREAS No areas suitable for spawning are found below the high tide mark.
GENERAL NOTES This zone lies partially in a long lagoon.

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile. AVERAGE WIDTH/DEPTH 15'-18'/12"-14".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Some boulders with scattered gravel areas.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None in the first mile.
TRIBUTARIES None.
SCHOOLING AREAS No pools of substantial size are found.
SPAWNING AREAS Some fair spawning areas are found throughout the distance surveyed.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
July 21	A 0.5	FWS						No fish observed in streams
Aug 28	A 0.5	FWS	0	0	0	100		
1960								
	No surveys							
1961								
	No surveys							
1962								
Aug 7	A	ADF						No fish observed

142-50
SNAKE CREEK
WR 31
Barrier Falls
Stepped Falls
HT
Old Mill
0.25 Mile

142-50 SNAKE CREEK ADF STAT. No. WR 31
56°10.8' N. 132°19.5' W. Previous No. 42

WRANGELL, ZIMOVIA STRAIT, OLIVE COVE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, steelhead.
ESCAPEMENT TIMING Middle. Aug.-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 55°F., 7/30/50; 56°F., 8/15/50; 53°F., 9/10/50; 51°F., 9/23/50; 57°F., 8/2/52; 61.5°F., 8/14/52; 57°F., 8/23/52; 52.5°F., 9/2/52; 50°F., 9/11/52; 61°F., 8/2/53; 59.5°F., 8/10/53; 57.5°F., 8/20/53; 56°F., 9/1/53; 54°F., 9/10/53; 52°F., 9/17/53.
VALLEY DESCRIPTION Flows through a flattened valley in its lower reaches. The valley walls become steep near the lake.
DRAINAGE 12.4 square miles (polar planimeter). The stream originates in five mountain lakes, with a total area of 2.5 square miles.
STREAM MOUTH IDENTIFICATION The mouth lies to the S. of the old mill site, head of bay.
ANCHORAGE Anchorage may be found inside the entrance to Olive Cove. Float has been removed.
TRAILS AND SURVEY ROUTES A somewhat overgrown trail may be followed from the mill to the weir site. The trail follows the left bank.
AERIAL SURVEY NOTES Fair for aerial survey on lower reaches. Poor in upper stream area.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 100'/12".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Small rock and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION Head of lagoon, rapids.
SCHOOLING AREAS In the bay off the mouth of the stream. Two large pools at head of tidewater.
SPAWNING AREAS Some favorable spawning gravel is found in the upper part, just below the falls.
GENERAL NOTES At the upper limit of this zone there is a 4' falls and cataract which present a partial block to salmon during low water levels.

UPSTREAM

LENGTH ACCESSIBLE 1.2 miles. AVERAGE WIDTH/DEPTH 40'-50'/10"-18".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Mostly sand and good spawning gravel.
MARKER DISTANCE 1.2 miles.
MARKER IDENTIFICATION
BARRIERS A series of falls 1.7 miles upstream blocks the ascent of salmon.
TRIBUTARIES The stream splits 1 mile upstream and the smaller fork goes towards the S. while the main branch continues to a small lake.
SCHOOLING AREAS Many pools are found throughout this stream.
SPAWNING AREAS The bottom is largely sand and debris from the mouth to the first bend; however, above this excellent spawning areas appear.
GENERAL NOTES The Bureau of Fisheries and the U. S. Fish and Wildlife Service have maintained a weir on this stream in the past. It was last maintained in 1949. Alaska Department of Fish and Game weir maintained in 1961 and 1962.

142-50

SNAKE CREEK

ADF STAT. No. WR 31
Previous No. 42

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1928								
Sept 22	Weir	USBF	49,156				385 cohos	Final total. Weir installed July 16
1929								
Sept 10	Weir	USBF	35,381		31		72 cohos	Final total. Weir installed June 19
1930								
Aug 16	Weir	USBF	134,083		172		38 cohos	Final total. Weir installed July 13
1931								
Sept 5	Weir	USBF	110,477		325		396 cohos, 2 reds	Final total. Weir installed July 9
1932								
Sept 7	Weir	USBF	19,096		1,038		80 cohos, 6 reds	Final total. Weir installed July 18
1933								
Aug 24	Weir	USBF	130,582		98		61 cohos	Final total. Weir installed July 15
1949								
Aug 16	Weir	FWS	178,363					Final total. Weir installed July 14
1950								
Aug 26	Weir	FWS	28,346					Final total. Weir installed July 15
1951								
Sept 8	Weir	FWS	67,179		203			Final total. Weir installed July 20
1952								
Aug 14	G 0.3	FWS	9,755	0	47	0		
Aug 23	G 0.3	FWS	25,243	0	453	0		
Aug 27	Weir	FWS	25,629		463			Final total. Weir installed July 20
Sept 2	G .3	FWS	35	1	0	0		
1953								
Sept 5	Weir	FWS	13,763		293			Final total. Weir installed July 15
Sept 10	G 1.0	FWS	1,935	774	0	6		Spawning count
Sept 17	G 1.0	FWS	1,200	1,001	0	0	64 cohos	
1954								
Aug 24	G 1.0	FWS	1,000	0	0	0		500 pinks schooled
Aug 31	Weir	FWS	48,788		132		2 cohos	Final total. Weir installed July 1
Sept 9	A 1.0	FWS	3,000	0	0	0		Fish mostly schooled
Sept 17	A 1.0	FWS	4,500	0		0		Some chums
1955								
Sept 5	Weir	FWS	33,180		33		1 reds	Final total. Weir installed July 2
1956								
Aug 18	Weir	FWS	212,380				4,300 cohos	Final total. Weir installed July 17
Season		FWS	57,486		1,347		23 cohos	
1957								
July 22	G abv weir	FWS	1,500					
July 28	A fork	FRI	8,000					
July 30	A 2.0	FRI	8,000					
Aug 2	G 0.7	FWS	10,000					
Aug 7	A 1.5	FWS	10,000					
Aug 8	G 0.5	FWS	11,000-12,000					
Aug 19	G 0.7	FWS	28,000					
Aug 23	G 0.7	FWS	35,000					
Aug 25	G 2.0	FWS-FRI	10,000					Some chums. Few dead pinks
Aug 31	A 2.0	FWS-FRI	4,000		180			

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1958								
July 12	A 1.5	FWS						No fish observed
July 13	G 0.1	FWS						No fish observed
July 14	G	FWS	50					
July 15	G	FWS	50					200 pinks at mouth
July 17	G	FWS	100					
July 18	G	FWS	170					
July 19	G	FWS	250					
July 20	G	FWS	500					
July 22	G	FWS	560					
July 25	G 0.5	FWS	650					
July 26	G 0.5	FWS	700					
July 28	G 0.5	FWS	700					
July 30	G 0.2	FWS	750					
July 30	A 1.0	FWS	1,000					
Aug 1	G	FWS	800					
Aug 5	G	FWS	900					
Aug 11	A falls mark	FRI	8,000					
Aug 25	A mark	FWS	4,000					
Aug 27	G abv mark	FRI	17,000	7	13	4		
Sept 7	G 2.5	FWS	3,900		10		15 cohos	
Sept 18	A	FRI	200					3,000 dead pinks
Oct 5		FWS					150 cohos	
1959								
July 17	G 0.5	FWS	500					
July 21	G 0.7	FWS	1,500					
July 23-26	G 0.5	FWS	2,500					
July 30	G 0.5	FWS	5,000					
Aug 2	G 0.5	FWS	4,000					300 pinks at mouth
Aug 2	G 0.5	FWS	5,000					
Aug 7	G 0.5	FWS	8,000					
Aug 9	G 0.5	FWS	8,000					
Aug 10	G 0.5	FWS	10,000					
Aug 10	A 1.0	FWS	15,000					
Aug 11	G 0.5	FWS	10,000					
Aug 15	G mouth	FWS	10,000					
Aug 25	G 1.5	FWS	20,000					
Aug 28	G 1.0	FWS	20,000					
Sept 3	A 0.2	FWS	20,000					Above weir
Sept 30	G 1.5	FWS	2,000				100 cohos	
1960								
July 23	A	ADF	present					3,000 at mouth
July 30	A	ADF	12,000					3,000 at mouth
Aug 8	A	ADF	13,500					
1961								
July 12	G 0.5	ADF	400					1,000 pinks at mouth
July 13	G 1.2	ADF	2,700					1,000 pinks at mouth
July 21	A length	ADF	>4,000					
July 27	A length	ADF	>5,500					
Aug 1	A length	ADF	15,000					200 pinks at mouth
Aug 3	G 1.0	ADF	15,000					Weir estimate 18,000
Aug 12	G 1.0	ADF	13,000	3,000			35 cohos	Heavy spawning

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1962								
July 6	A length	ADF						1,500 at mouth 1,000 in intertidal zone
July 16	G 0.2	ADF	17,500					1,500 at mouth 500 in intertidal zone
July 25	A length	ADF	>40,000					3,000 at mouth
July 25	G length	ADF	79,000					
July 30	A length	ADF	100,000					1,500 below weir
Aug 5	G length	ADF	90,000					500 below weir
Aug 9	A length	ADF	85,000					100,000 in lower stream
Aug ?	A length	ADF	88,000					95,000 in lower stream
Aug ?	A length	ADF	68,000					
Aug ?	A length	ADF	30,200					
1963								
July 10	G mouth	ADF						No fish observed
July 15	A 0.5	ADF	500					
July 20	G above cabin	ADF	4,000					
July 29	A length	ADF	45,000					2,000 in intertidal
Aug 7	G to 2nd falls	ADF	105,000		24			400 in intertidal
Aug 16	A length	ADF	112,000					1,500 in intertidal
Aug 16	A length	ADF	125,000					helicopter

142-50

SNAKE CREEK

ADF STAT. No. WR 31
Previous No. 42

U. S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
July 16	3,783							
17	2,405							
18	3,286							
19	1,837							
20	1,249							
21	707							
22	415							
23	2,186							
24	2,258							
25	4,331							
26	5,348							
27	3,733							
28	2,745							
29	1,920							
30	1,325							
31	1,340							
Aug 1	360							
2	1,260							
3	868							
4	972							
5	615							
6	668							
7	593							
8	197							
9	948							
10	255							
11	187							
12	272							
13	181							
14	189							
15	272							
16	239		4					
17	52		7					
18	106		7					
19	365		5					
20	114							
21	42		3					
22	50		6					
23	121		6					
24	153		9					
25	85		2					
26	110		9					
27	141		3					
28	43		1					
29	37		3					
30	51		1					
31	61		1					
Sept 1	31							
2	45		1					
3	31							
4	36							
5	34							
6	19							
7	15							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1928								
Sept 8	29		2					
9	13							
10	59							
11	54							
12								
13	139		44					
14	81		46					
15	16		31					
16	16		54					
17	22		58					
18	15		21					
19	5		15					
20	6		21					
21	7		19					
22	8		6					
Total	49,156		385					
1929								
July 10	400							
11	221							
12	500							
13	1,754							
14	1,148							
15	1,295							
16	2,176							
17	2,203							
18	2,601							
19	1,400							
20	1,050							
21	1,452							
22	1,362							
23	2,333							
24	1,359							
25	1,603							
26	828							
27	1,400	7						
28	2,504							
29	1,492							
30	672							
31	358							
Aug 1	267							
2	198							
3	270							
4	385							
5	397							
6	325							
7	175							
8	275							
9	265							
10	88	6						
11	212							
12	31							
13	18							
14	43							
15	17							
16	454							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
Aug 17	1,088	18						
18	29							
19	11							
20	87							
21								
22	16							
23	46							
24	21							
25	21							
26	74							
27	63							
28	28							
29	36							
30	34							
31	18							
Sept 1	12							
2	21							
3	12							
4	56							
5	67							
6	16							
7	18							
8	47							
9	21							
10	20							
11								Estimated 1,000 below weir
Total	35,381	31	72					
1930								
July 13	4,648							
14	1,469							
15	1,775							
16	4,194							
17	6,907							
18	4,078	4						
19	5,447							
20	2,610	7						
21	3,695	17						
22	4,279	10						
23	3,975	5						
24	1,113	5						
25	7,643	6						
26	9,246	20						
27	3,714	6						
28	3,842	6						
29	4,881	5						
30	9,167	5						
31	9,134	4						
Aug 1	6,787	14						
2	4,625	6						
3	3,900	8						
4	4,025	6	1					
5	2,024	3						
6	2,219							
7	2,257							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
Aug 8	2,710	4						
9	2,805	10						
10	2,372							
11								Weir closed for scientific
12	4,086	7	10					purpose
13	1,470	8	9					
14	1,916	6	12					
15	560		6					
16	510							Weir closed for season
Total	134,083	172	38					
1931								
July 9	350							
10	1,078							
11	2,845							
12	2,133							
13	5,227							
14	5,568							
15	3,522							
16	6,161							
17	3,689							
18	3,000							
19	2,611							
20	2,681							
21	3,489							
22	5,484							
23	8,131							
24	10,108							
25	9,237							
26	4,587							
27	5,400							
28	4,282	1						
29	1,690	3						
30	2,706	2						
31	2,750							
Aug 1	2,485							
2	1,840							
3	600							
4	257							
5	138							
6	364							
7	628							
8	205							
9								
10								
11								
12								
13								
14								
15								
16	192	9	3					
17	348	15	5					
18	154	10						
19	162	4						
20	128							
21	50	5						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Aug 22	151	13	1					
23	1,950	89	3	2				
24	1,138	31	21					
25	230	18	1					
26	81	13	13					
27	5	5						
28	571	18	73					
29	365	11	36					
30	137	27	30					
31	105	15	6					
Sept 1	155	7	13					
2	180	15	68					
3	56	7	13					
4	73	7	10					
5	1,000		100					
Total	110,477	325	296	2				
1932								
July 17								
18	104							
19	92		1					
20	311							
21	34		2					
22	170		1					
23	1,228		5					
24	2,491	11						
25	1,204	7						
26	373	2						
27	1,367	5						
28	391	8						
29	904	10						
30	841	8						
31	832	10						
Aug 1	654	18						
2	635	20						
3	641	8						
4	418	55						
5	481	29						
6	116	22						
7	334	30						
8	46	21						
9	115	44						
10	52	49						
11	121	75						
12	481	103						
13	699	91						
14	244	56						
15	605	73						
16	118	46						
17	108	32						
18	33	24						
19	302	52						
20	17	14						
21	90	21						
22	72	21						
23	73	23						
24	68	8						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1932								
Aug 25	16	4						
26	82	6						
27	315	5	9					
28	452	7	3	4				
29	79	8						
30	14	4						
31	133	1	1	1				
Sept 1	265	1	4					
2	178	1	4	1				
3	64	1						
4	46							
5	45	2						
6	42	2						
7	500		50					
8								
9								
10								
Total	19,096	1,038	80	6				
1933								
July 15	1,384	1						
16	9,745	6						
17	4,315	1						
18	1,113							
19	3,897							
20	7,891	3	1					
21	13,527	5						
22	9,328	2						
23	6,306	6						
24	7,201							
25	4,847	5						
26	4,830	1						
27	3,969	5						
28	4,726	6						
29	4,300							
30	10,619	6						
31	6,862							
Aug 1	4,125	1						
2	3,566	3						
3	1,597	1						
4	2,444	2						
5	1,197							
6	1,383	1	1					
7	6,600	3	13					
8	613	2						
9	2,000	5						
10	230							
11								
12								
13	77							
14	846							
15	1,376	4	1					
16	621	2	2					
17	240	5	10					
18	256	6	5					
19		4						
20		1						
21		1						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1933								
Aug 22	162	2	1					
23	829	4	25					
24	57	4	2					
Total	130,582	98	61					
1949								
July 14	3,600							
15	2,500							
16	3,498							
17	1,968							
18	3,642							
19	5,786							
20	2,465							
21	3,730							
22	9,261							
23	8,541							
24	5,900							
25	5,475							
26	7,880							
27	12,363							
28	9,203							
29	9,375							
30	5,615							
31	3,182							
Aug 1	304							
2								
3	5,820							
4	3,140							
5	8,247							
6	8,643							
7	9,862							
8	4,475							
9	3,509							
10	1,743							
11	2,736							
12	6,938							
13	7,583							
14	2,361							
15	3,276							
16	5,742							
Total	178,363							
1950								
July 20	40							
21	2,255							
22	1,323							
23	857							
24	812							
25	350							
26	551							
27	3,139							
28	2,499							
29	1,988							
30	1,219							
31	574							
Aug 1	1,244							
2	2,016							

ADF STAT. No.
WR 31
Previous No. 42

142-50 SNAKE CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1950								
Aug 3	989							
4	798							
5	900							
6	261							
7	461							
8	802							
9	2,527							
10	750							
11	113							
12	117							
13	1,349							
14	64							
15	46							
16	9							
17								
18	33							
19	11							
20	48							
21								
22	34							
23	21							
24	23							
25	122							
26	1							
Total	28,346							
1951								
July 25	2,046	2						
26	1,994							
27	2,232	1						
28	4,778	3						
29	4,381							
30	3,386							
31	2,848							
Aug 1	4,582	3						
2	3,002	1						
3	6,322	5						
4	7,600	10						
5	6,187	6						
6	3,365							
7	3,208							
8	1,556	1						
9	1,597	7						
10	1,116	4						
11	779							
12	670	4						
13	532	5						
14	1,209	9						
15	471	5						
16	509	4						
17	323	7						
18	336	5						
19	91	2						
20	266	17						
21	318	9						
22	75	9						

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1951								
Aug 23	40	1						
24	69	1						
25	251							
26	21	1						
27	143	3						
28	12							
29	37							
30	19	6						
31	9							
Sept 1	29	4						
2								
3								
4								
5								
6								
7								
8	398	18						
9	372	50						
Total	67,179	203						
1952								
July 21	67							
22	1,989	4						
23	1,884							
24	1,678	1						
25	1,496	1						
26	1,949	2						
27	2,039	2						
28	1,556	8						
29	2,354	3						
30	1,634	2						
31	1,727	4						
Aug 1	865	4						
2	1,104	11						
3	761							
4	567	4						
5	818	7						
6	507	12						
7	798	32						
8	241	15						
9	159	19						
10	161	6						
11	150	12						
12	179	24						
13	42	13						
14	155	15						
15	68	12						
16	83	24						
17	259	88						
18	193	66						
19	87	41						
20								
21	12	9						
22	15	12						
23	19	6						
24	13	4						
Total	25,629	463						

ADF STAT. No.
WR 31
Previous No. 42

142-50 SNAKE CREEK

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1953								
July 1-17	0							
July 18	225							
July 19	413							
July 20	874							
July 21	938							
July 22	995	1						
July 23	686	2						
July 24	808	4						
July 25	840	6						
July 26	520	2						
July 27	459	1						
July 28	871	2						
July 29	516	5						
July 30	637	4						
July 31	426	1						
Aug 1	549	5						
Aug 2	321	3						
Aug 3	292	10						
Aug 4	399	2						
Aug 5	176	5						
Aug 6	310	8						
Aug 7	293	6						
Aug 8	238	18						
Aug 9	45	11						
Aug 10	496	40						
Aug 11	114	17						
Aug 12	186	10						
Aug 13	47	9						
Aug 14	90	6						
Aug 15	131	6	1					
Aug 16	203	12	4					
Aug 17	89	7						
Aug 18	82	9	1					
Aug 19	31	3						
Aug 20	27	2						
Aug 21	26	2	2					
Aug 22	17	4						
Aug 23	2							
Aug 24	26	17	1					
Aug 25	41	11	2	1				
Aug 26	10	1						
Aug 27	40	5						
Aug 28	2							
Aug 29	209	16	5	2				
Aug 30	25	11						
Aug 31	13	5	1					
Sept 1	18	4	31					
Sept 2	0							
Sept 3	7							
Total	13,763	293	48	3				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1954								
July 18	12							
19	569	15						
20	3,732	10						
21	1,166	1						
22	1,568	1						
23	1,728	1						
24	2,555	1						
25	2,109	1						
26	1,857							
27	3,115	1						
28	1,924	5						
29	1,848	1						
30	2,982	1						
31	2,050							
Aug 1	2,201	4						
2	1,921	1						
3	1,401	1						
4	2,505	1						
5	1,660							
6	1,368	1						
7	2,111							
8	1,565							
9	928	10						
10	555							
11	677	4						
12	691	4						
13	738	3						
14	291	3						
15	538	3						
16	388	12						
17	427	17						
18	222	11						
19	205	9						
20	203	7						
21	151	3	1					
22	91	5						
23	41							
24	87	6						
25	163	10	1					
26	70	4						
27	150	7						
28	73	2						
29	3	3						
30	135	6						
31	14	3						
Total	48,788	132						
1955								
July 21	669							
22	127							
23	413							
24	791							
25	551							
26	454							
27	2,700							
28	1,320							

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1955								
July 29	3,294							
30	4,584							
31	3,202							
Aug 1	2,806							
2	1,639							
3	2,055							
4	964							
5	1,085							
6	542							
7	355							
8	1,397			1				
9	738							
10	282							
11	404							
12	555							
13	162							
14	91							
15	209							
16	100							
17	66							
18	161							
19	117							
20	50							
21	135							
22	67	1						
23	22	1						
24	134							
25	9							
26	426	10						
27	7							
28	51							
29	40	1						
30	49							
31	234	9						
Sept 1	27	6						
2	45	2						
3	24	2						
4	27							
5								
Total	33,180	33		1				
1956								
July 5-11	0			0				
July 12	10							
July 13	304							
July 14	1,054			2				
July 15	626							
July 16	3,903							
July 17	3,439							
July 18	4,518							
July 19	8,014	1						
July 20	3,519	352						
July 21	1,618							

ADF STAT. No.
WR 31
Previous No. 42

142-50 SNAKE CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1956								
July 23	1,432	14						
July 24	3,197	0						
July 25	3,350							
July 26	908							
July 27	1,936							
July 28	2,108							
July 29	1,286							
July 30	1,455							
July 31	2,043							
Aug 1	899							
Aug 2	1,280	1						
Aug 3	903	8						
Aug 4	902	8						
Aug 5	High water - no count							
Aug 6	1,528	27						
Aug 7	664	31						
Aug 8	251	6						
Aug 9	214	3						
Aug 10	315	5						
Aug 11	297	12						
Aug 12	152	14						
Aug 13	137	8						
Aug 14	261	11						
Aug 15	157	6						
Aug 16	67	19						
Aug 17		8						
Aug 18	136	34						
Aug 19	90	98						
Aug 20	201	52	3					
Aug 21	170	164	4					
Aug 22	102	63	2					
Aug 23	72	54	3					
Aug 24	67	60						
Aug 25	33	24	1					
Aug 26	18	16						
Aug 27	22	31						
Aug 28	24	24						
Aug 29	74	29						
Aug 30	6	11						
Aug 31	190	68	7					
Sept 1	66	21	3					
Sept 2	55	14						
Sept 3	21	4						
Total	57,486	1,347	23					

SNAKE CREEK - Continued

ADF STAT. No. WR 31
Previous No. 42

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1961								
July 27	15,000	12						
July 28	74							
July 29	561							
July 30	210							
July 31	844							
Aug 1	918							
Aug 2	807							
Aug 3	1,176	1						
Aug 4	352							
Aug 5	1,284							
Aug 6	797							
Aug 7	1,293	18						
Aug 8	793	2						
Aug 9	371	5						
Aug 10	283	4						
Aug 11	895	20						
Aug 12	421	2						
Aug 13	261	5						
Aug 14	155							
Aug 15	299	3						
Aug 16	184	4						
Aug 17	155	3						
Aug 18	97	3						
Aug 19	31	1						
Aug 20	48	2						
Aug 21	22	1						
Aug 22	17	5						
Aug 23	27	9						
Aug 24	175	21						
Aug 25								
Aug 26								
Aug 27								
Aug 28								
Aug 29	6	1						
Aug 30	2							
Sept 1	26							
Sept 2	4	2	15					
Sept 3	4	1	1					
Sept 4	14	8	10					
Totals	27,552	133	26					
1962								
July 6								
July 7	145							
July 8	474	4						
July 9	12,216	8						
July 10	2,065							
July 11	1,763							
July 12	2,587							
July 13	4,536							
July 14	5,445							
July 15	2,854							
July 16	4,338	4						
July 17	3,557							

SNAKE CREEK - Continued

ADF STAT. No.
WR 31
Previous No. 42

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1962								
July 18	5,457							
July 19	6,740							
July 20	2,974							
July 21	6,166							
July 22	7,204							
July 23	3,437							
July 24	6,174							
July 25	8,062							
July 26	2,881	5						
July 27	3,057							
July 28	1,508							
Totals	93,644	21						

HT
N
0.25 Mile

141-20 MENEFEE CREEK ADF STAT. No. WR 32
56°08.4' N. 132°15.2' W. Previous No. 44

WRANGELL, ERNEST SOUND, MENEFEE INLET, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION The valley wall rises sharply W. of the stream, snowfields border this side of the valley. To the E. the valley has a gentle gradient and numerous open muskeg areas.
DRAINAGE 5.2 square miles (polar planimeter). Precipitation-fed. Large snowfield to the W. contributes snowmelt at certain times of the year. Also drains a large muskeg area.
STREAM MOUTH IDENTIFICATION
ANCHORAGE Anchorage may be had 1.2 miles from the head of the bay in 14 fathoms.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'/12".
GRADIENT AND VELOCITIES
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 32
Previous No. 44

141-20 MENEFEE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 27		FWS	31				74 cohos	
1951								
Sept 7-21	0.7	FWS	11,000		500		200 cohos	
1953								
July 27	A 0.6	FWS						5,000 pinks and chums Fish observed at head of bay
1954								
Aug 8-Sept 10		FWS	2,000					
1955								
Sept 7	G 2.5	FWS	1,300	50	12			
1956								
Aug 15	A 2.0	FWS	700					
Sept 6	G length	FWS	5,000		50			
Sept 6	G 1.2	FWS	15,000		100			
Sept 11	A 1.5	FWS	8,000-10,000					
1957								
July 28	G 0.2	FWS	750		50			
Aug 7	A 2.0	FWS	400					
Aug 12	G 3.0	FWS	1,040		350			
Aug 29	G 0.5	FWS	354		354			
1958								
Aug 8	A length	FWS	175					
Sept 27	G 0.1	FWS	11					
1959								
July 31	G 0.2	FWS			40			
Aug 10	A 1.5	FWS			350			
1960								
	No surveys							
1961								
	No surveys							
1962								
Aug 30	A length	ADF	8,000					300 at mouth, 12,000 in intertidal zone

141-20
56°03.2' N. 132°13' W.

ADF STAT. No.
WR 33
Previous No. 45

WRANGELL, ERNEST SOUND, CANOE PASSAGE, NW. of Brownson Island.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Middle. Aug-Sept. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. Observed temperatures: 48°F., 9/3/52; 47.5°F., 9/11/52; 51°F., 9/17/52; 53°F., 9/4/53; 50.5°F., 9/13/53.
VALLEY DESCRIPTION
DRAINAGE 4.3 square miles (polar planimeter). Drains a lake 1.2 miles long and 0.4 mile wide, lying 1.5 miles above the mouth.
STREAM MOUTH IDENTIFICATION Enters Canoe Passage directly opposite the middle of its N. entrance. Heavily wooded at the mouth. A short tidal area.
ANCHORAGE Canoe Passage, eastward of Brownson Island, widens and affords anchorage.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Good aerial visibility.

INTERTIDAL ZONE

LENGTH 0.4 mile. AVERAGE WIDTH/DEPTH 15'/3"-6".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Mostly gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Very few pools.
SPAWNING AREAS Good spawning gravel is found in the upper 0.2 mile.
GENERAL NOTES This zone meanders through a grass flat.

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles to lake. AVERAGE WIDTH/DEPTH 10'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Small rock--fair spawning gravel.
MARKER DISTANCE .0.5 mile.
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

141-20

ADF STAT. No.
WR 33
Previous No. 45

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1952								
Aug 31	0.4	FWS	175	50				
Sept 3	G 0.5	FRI	162	15	9	39		Exploratory survey
Sept 11	G 0.4	FRI	274	9	20	15		
Sept 19	G 0.5	FRI	259	21	18	0		
1953								
July 28	A 0.5	FWS						No fish observed
Aug 17	A 0.6	FRI	0	0	0	0		
Aug 26	A 0.6	FWS	25	0	75	0		
Sept 4	A 0.6	FRI	62	1	36	38		Same terminal as for 1952
Sept 13	A 0.6	FRI	105	4	62	38		200 at mouth
1954								
Aug 7	0.5	FWS						1,000 mixed off mouth
Aug 7-10		FWS	2,000					
1955								
Aug 26		FWS						No salmon observed
1956								
Sept 11	A 1.0	FWS	3,000					
Sept 21	G 1.0	FWS	10,600	300				
1957								
July 28	G	FWS	75		25			
Aug 9	G	FWS	12		13			
Aug 12	G 0.2	FWS	125		80			
Aug 29	G 0.2	FWS	40		20			
1958								
Aug 27	G 0.5	FWS			30			
Aug 30	A length	FWS						No salmon observed
Sept 27	G 0.5	FWS						No salmon observed
1959								
July 23	G 0.2	FWS						No salmon observed
July 31	G 0.2	FWS						25 pinks at mouth
Aug 7	G 0.2	FWS						No salmon observed
Aug 14	G 0.2	FWS	40		30			
1960								
	No surveys							
1961								
	No surveys							
1962								
July 25	A length	ADF						300 at mouth
Aug 30	A length	ADF	3,000					150 at mouth, 1,500 in intertidal zone

141-30

WR 34

ADF STAT. No.
WR 34
Previous No. 47

141-30
55°56.2' N. 132°15.7' W.

WRANGELL, ERNEST SOUND, 1 mile W. of entrance to Canoe Passage.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. Aug. -Sept.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Cold range. Observed temperature: 44.5° F., 9/30/53.
VALLEY DESCRIPTION
DRAINAGE 2.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

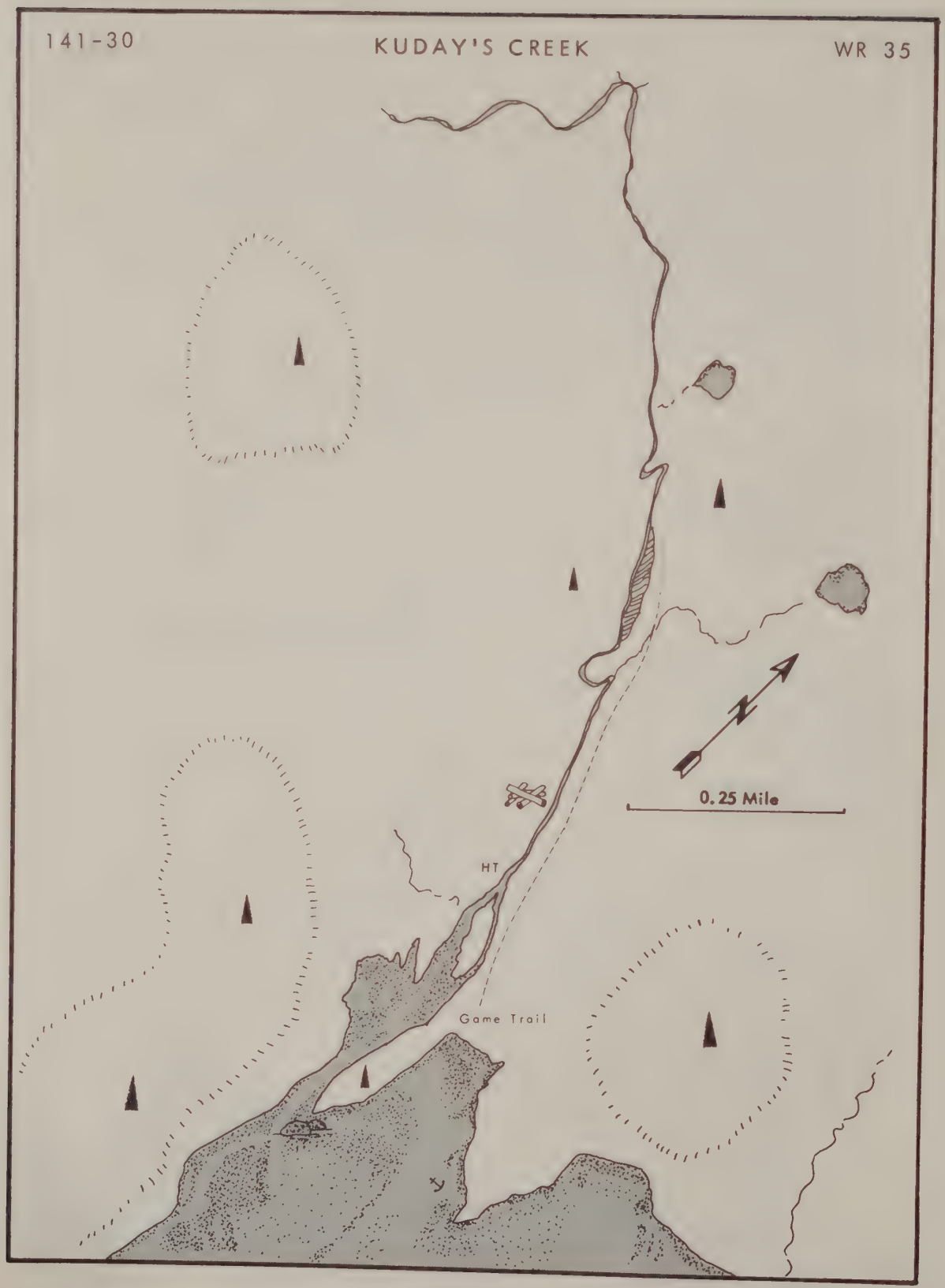
UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 12'/6".
GRADIENT AND VELOCITIES Swift.
BOTTOM Excellent gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 22	G 0.5	FRI	660	118	200	1,056		
1953								
July 28	A 0.2	FWS	300					Fish at mouth
Aug 25	G 0.2	FWS	0	0	2,000	0		
Sept 3	G 0.2	FWS	0	0	400	0		
1960								
	No surveys							
1961								
	No surveys							


141-30
KUDAY'S CREEK
WR 35
0.25 Mile
HT
Game Trail

141-30 KUDAY'S CREEK ADF STAT. No. WR 35
55°56.3' N. 132°16.5' W. Previous No. 48

WRANGELL, ERNEST SOUND, 2 miles W. of entrance to Canoe Passage.

MAJOR SPECIES Pink OTHER SPECIES Chum, coho
ESCAPEMENT TIMING Middle. Aug-Sep. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Cold range. Observed temperatures: 50.5°F., 9/12/50; 41°F., 10/3/50; 50°F., 9/16/50; 45°F., 9/26/50; 47°F., 10/7/51; 51°F., 9/22/52; 46.5°F., 10/5/52; 48.5°F., 9/17/53; 43.5°F., 9/30/53.
VALLEY DESCRIPTION The valley is broad and nearly flattened near the mouth. Upstream the valley narrows.
DRAINAGE 12 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Stream enters the left corner of the first bight W. of the entrance to Canoe Pass. Must proceed to the most westerly point in the bay before the stream is visible.
ANCHORAGE Anchorage is available in the right-hand side of the bight or in the lee of Stone Island. The W. shore at the bight has several submerged rocks which present a hazard to boats.
TRAILS AND SURVEY ROUTES A fair game trail follows the right bank.
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 15'-30'/6"-12".
GRADIENT AND VELOCITIES Gentle to moderate.
BOTTOM Good gravel between larger rock in the upper part; gravel and boulders in the lower part.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS The upper 300 yards has good spawning gravel and is heavily used by pinks. The lower portion has poor spawning facilities.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 10'-25'/5"-8".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Large rock and rubble, broken rock, gravel, and much bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None reported.
SCHOOLING AREAS
SPAWNING AREAS The lower part is the only area with a bottom suitable for spawning. Most of the spawning is limited to pockets behind boulders.
GENERAL NOTES A small stream with fast riffles and nearly continuous rapids. One-half mile upstream the creek enters a canyon. The bottom is nearly all bedrock in this area.

ADF STAT. No.
WR 35
Previous No. 48

141-30 KUDAY'S CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 16	G 0.7	FRI	4,475	235	37	12		Excellent to excessive
Sept 29	G 0.7	FRI	6,400	1,472	14	24		Excellent to excessive
1951								
Sept 16	G 0.5	FRI	11,100	800	180	125	3 cohos	30 per cent pinks spawning
Sept 26	G 0.5	FRI	19,400	>400	200			60 per cent pinks spawning
Oct 7	G 0.5	FRI	2,200	450	0	3		
1952								
Sept 1	G 0.3	FWS	850	20	120			
Sept 22	G 0.3	FRI	305	21	53	33		
1953								
July 5	G 0.2	FWS	5,000	0	0	0		1,000 on ground above
Aug 25	G 0.2	FWS	2,000	0	0	0		
Aug 27	G 0.5	FWS	20	0	50	0		1,800 at mouth
Sept 17	G 0.1	FRI	50	0	few			Visibility zero
Sept 30	G 0.3	FRI	30	0	100	5		
1954								
Aug 7	1.0	FWS						Salmon observed, Pink school off mouth
Sept 15	G 0.5	FRI	3,100	50	0	0		3,000 off mouth
Sept 27	G 0.5	FRI	3,900	500	5	0		Few dead chums
1955								
Aug 26	A 1.0	FWS	500	0	0	0		
Sept 10	G 1.5	FWS	450	7	25	0		3,500 fish in mouth
Sept 16	A 0.5	FRI	1,500	0	0	0		Some at mouth
Sept 23	A 0.5	FRI	9,000	300				Few live, few dead chums
1956								
Aug 15	A length	FWS	200					
Sept 9	A 0.5	FRI	1,500					Few live chums, 3,000 at mouth
Sept 11	A 1.0	FWS	2,500					
Sept 12	G 1.0	FWS	1,700		100			
Sept 17	A 1.0	FWS	3,000					
Sept 20	G 2.0	FWS	21,600		4,000		2 cohos	
Sept 28	A mkr	FRI	20,000					Some dead
1957								
Sept 9	A 0.5	FRI	200	0	0	0		
Sept 22	A 0.5	FRI	700					Few dead pinks. Some live chums
Sept 27	A 0.5	FRI	100	few				Few live chums
1958								
Sept 7	A 0.5	FRI	400	0	0	0		None off mouth. Poor visibility
1959								
Aug 4	A 0.2	FWS						No salmon observed
Aug 14	G 0.2	FWS						No salmon observed
1960	No surveys							
1960	No surveys							
1963								
July 26	A mouth	ADF						No fish observed
Aug 21	A	ADF						200 in intertidal zone

REGULATORY DISTRICT NO. 8

ADF STAT. No.
E 7A

154-94 MUDDY RIVER
56°54.8' N. 132°49.5' W.

EASTERN, FREDERICK SOUND. S. of Pt. Agassiz.

MAJOR SPECIES Chum. OTHER SPECIES Pink, coho, steelhead, trout.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION Long, wide valley with several clear water sloughs and streams.
DRAINAGE 76.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Poor anchorage. Can be reached by skiff from Petersburg or Thomas Bay.
TRAILS AND SURVEY ROUTES Stream can be run for quite a length in shallow-draft skiff.
AERIAL SURVEY NOTES The main stem is discolored and impossible to survey. Two clear water streams are present about 7 or 8 miles from tidewater.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 150'/36".
GRADIENT AND VELOCITIES Swift.
BOTTOM 15% sand, 80% gravel, 5% small rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 12 miles. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES Two clear water tributaries and several small clear water sloughs.
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 9	1.5	FRI						No salmon observed
Aug 19		FRI						No salmon observed
1958								
Aug 29	A 0.2	FWS						No salmon observed
1962								
July 24	A 10.0	ADF						Too muddy for survey Several hundred chums in clear water tributaries

ADF STAT. No.
E 31D

142-70 FIVEMILE CREEK
56°52.9' N. 134°58' W.

EASTERN, FREDERICK SOUND, W. of Sukhoi Islets.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, steelhead, and cutthroat trout.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES Generally good spawning facilities.
STREAM TEMPERATURES Cold range. Observed temperatures: 49.5° F., 9/4/52; 47° F., 9/15/52.
VALLEY DESCRIPTION Narrow valley, bounded by high peaks.
DRAINAGE Steep, timbered slopes, muskeg valley. Originates in small, clear lake.
STREAM MOUTH IDENTIFICATION Sandy beach at N. shore; cabins and warehouse at mouth.
ANCHORAGE Only available anchorage is off the mouth of the stream. This is poor anchorage as there is very little shelter and the 12 fathom shelf is narrow. Small skiff can be anchored in stream and drifted out at any tide. Stream can be worked out of Petersburg easily by skiff.
TRAILS AND SURVEY ROUTES There is a forest trail that follows the muskeg to the right of the stream and crosses the stream at the terminal marker.
AERIAL SURVEY NOTES Water usually dark and light in stream poor due to dense timber-stand.

INTERTIDAL ZONE

LENGTH 0.5 mile at low tide. AVERAGE WIDTH/DEPTH 55'/8".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel and small boulders; sand in lower part.
LOW TIDE LOCATION Mudflats.
HIGH TIDE LOCATION First, small, grassy island in stream.
SCHOOLING AREAS Limited schooling area.
SPAWNING AREAS Upper tidal zone offers excellent spawning facilities while the lower portion contains sand and many barnacle-covered boulders.
GENERAL NOTES Pink salmon generally do not appear to school in the intertidal area of this stream in large numbers, but instead move quickly into the stream.

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 30'/12"
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel, small boulders, and some sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS The first 0.7 mile above high tide is generally good spawning area. The stream has continuous riffles with numerous pools. Above the terminal marker, the stream gently cascades over large boulders and bedrock offering very poor spawning facilities.
GENERAL NOTES

ADF STAT. No.
E 31D

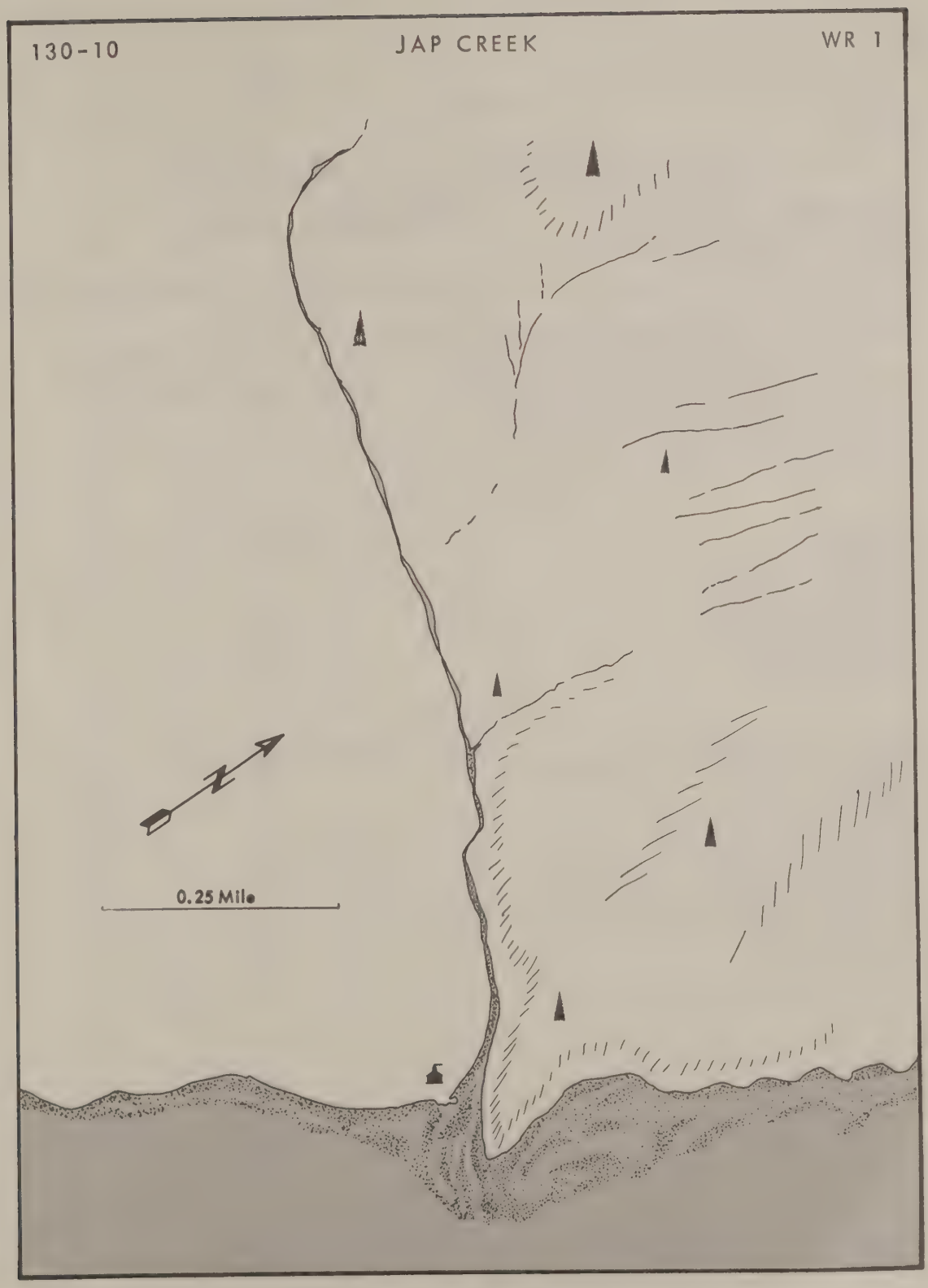
142-70

FIVEMILE CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1952								
Sept 4		FWS	600	1				
Sept 15		FWS	151	22				
1958								
Aug 25	A 1.0	FWS						No fish observed
1959								
Aug 17	A 0.5	FWS						No fish observed
1961								
Aug 8	A 0.2	ADF	1,500					1,500 in intertidal
1962								
July 27	G	ADF						No fish observed
Aug 15	A 1.5	ADF						A few pinks


N
0.25 Mile

ADF STAT. No.
WR 1

130-10 JAP CREEK Previous No. 1

56° 46.4' N. 132° 36' W.

WRANGELL, FREDERICK SOUND, LE CONTE BAY, 3.5 miles N. of entrance to Le Conte Bay.

MAJOR SPECIES Pink.
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES
VALLEY DESCRIPTION Stream-cut. The valley is steep-sided and rises sharply away from the stream along both forks.
DRAINAGE 6.5 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION NW. of the mouth steep cliffs rise up from the shoreline. A small tidal area, heavily wooded around its margin.
ANCHORAGE The great depths prevent anchoring in the bay proper, but anchorage for small craft is obtainable in Thunder Cove. Beware of icebergs.
TRAILS AND SURVEY ROUTES A cabin is reported to be near the mouth.
AERIAL SURVEY NOTES
GENERAL NOTES ADF personnel advise staying out of Le Conte Bay.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile.
AVERAGE WIDTH/DEPTH 40'/24"
GRADIENT AND VELOCITIES Moderate.
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES One tributary enters the lake.
SCHOOLING AREAS
SPAWNING AREAS Good spawning grounds in the lower reaches.
GENERAL NOTES

ADF STAT. No.
WR 1
130-10 JAP CREEK Previous No. 1

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 9		FWS			18			
1951								
July 24	A	FRI						700 to upper tidal hole
1953								
Aug 4	A	FWS	1,000					In schools
Aug 31	G 0.12	FWS	10		3			
1954								
July 21	G 1.0	FWS			310			
July 29	G 0.5	FWS			2,000			
Sept 2	G 0.2	FWS	72					
1955								
July 26	G 0.2	FWS			7			
Aug 20	G to falls	FWS	3,000		50			
Aug 24	G to falls	FWS	2,000					
1956								
July 30	G	FWS	1		30			
Aug 8	G	FWS	300		1,000			
Aug 13	G	FWS	1,500		700-800			
Aug 14	A 0.5	FWS	900					
Aug 15	G 0.3	FWS	2,000					
Aug 27	G 0.3	FWS	2,500					
1957								
July 29	G 0.2	FWS	1		85			
Aug 5	G 0.5	FWS	700		3,000			
Aug 7	A 0.2	FWS			300			
1958								
July 24	G 0.5	FWS			800			
July 24	A 1.0	FWS			1,000			
Aug 8	A	FWS	100		100			
Aug 13	A 0.2	FWS	3,000		900			
Aug 16	A 1.0	FWS			15			
Aug 28	A 1.0	FWS	500					
1959								
Aug 3	G 0.5	FWS	250					
Aug 10	A 0.5	FWS						No salmon observed
Sept 3	G to falls	FWS	110					15 pinks in tidal zone
1960								
	No surveys							
1961								
	No surveys							
1962								
July 29	A mouth	ADF						No salmon observed
1963								
July 29	A	ADF						No jumps

N
0.25 Mile
Barrier Falls
HT

ADF STAT. No.
130-10 WR 2
56°46.1' N. 132°26' W. Previous No. 3

WRANGELL, FREDERICK SOUND, LE CONTE BAY, SE. corner.

MAJOR SPECIES OTHER SPECIES
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good to excellent.
STREAM TEMPERATURES
VALLEY DESCRIPTION Glacial origin.
DRAINAGE 12.4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Good aerial visibility. Aerial survey preferable.
GENERAL NOTES Stream is inaccessible until mid-July and then it is not a good idea to survey on foot. ADF personnel advise staying out of this area.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Enters Le Conte Bay through an estuary.

UPSTREAM

LENGTH ACCESSIBLE 5 miles. AVERAGE WIDTH/DEPTH 75'/30".
GRADIENT AND VELOCITIES Steep to moderate.
BOTTOM Gravel, small and large rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS The right branch has a 30' falls a short distance above the confluence. The left branch has a steep cascade just above the fork. The cascade forms a partial block.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS A good spawning stream.
GENERAL NOTES The stream forks three-fourths of a mile upstream.

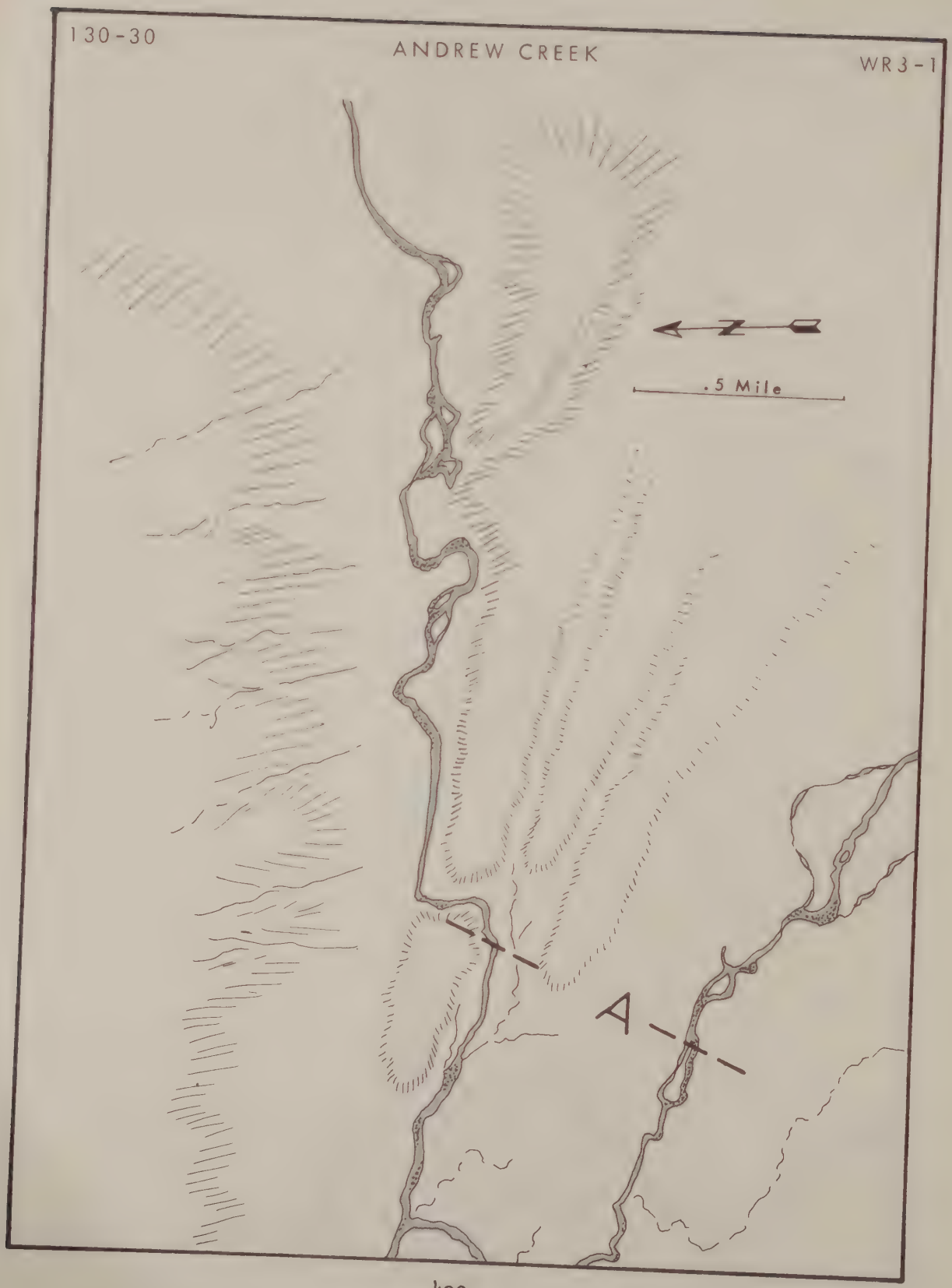
ADF STA'i. No.
WR 2

130-10 ESCAPEMENT RECORD Previous No. 3

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Aug 9		FWS			213			
1951								
July 27	A 0.7	FRI						None observed
1953								
Aug 4	A	FWS						Few pinks
Aug 8	0.5	FWS	100		200			
1954								
July 29	G 0.12	FWS	50		1,000			
July 29	G 0.7	FWS			300			
Sept 7	A 1.0	FWS						None observed
Sept 12	G 0.5	FWS	45					
1955								
July 26	G 0.2	FWS	0		350			
July 28	G 0.2	FWS						Some pinks off mouth
Aug 15	A							No salmon observed
Aug 23	G 0.1	FWS	3,000					A few rugged chum
Aug 24	G 0.2	FWS	2,000					5,000 estimate in fresh and salt water
1956								
July 29	G	FWS			100			Intertidal zone
Aug 13		FWS	5					Intertidal zone
Aug 18	G 0.3	FWS	5					
Aug 28	G 0.3	FWS	<100					
1957								
July 29	G 0.2	FWS	0		11			
Aug 9	A 2.0	FWS			200			
1958								
Aug 8	A length	FWS						No salmon observed
Aug 28	A 4.0	FWS						No salmon observed
1959								
Aug 10	A 0.5	FWS						No salmon observed
Sept 3	G 0.1	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

130-30
ANDREW CREEK
WR3-1
Barrier
A
Game Trail
Take Skiff
to Here
0.5 Mile
HT


130-30
ANDREW CREEK
WR3-1
.5 Mile
A
A

ADF STAT. No.
WR 3-1

130-30 ANDREW CREEK Previous No. 5
56°40' N. 132°14.9' W.

WRANGELL, FREDERICK SOUND, DRY STRAIT, Stikine River tributary, S. bank. SE. of Limb I.

MAJOR SPECIES Pink. OTHER SPECIES King, chum, coho, red.
ESCAPEMENT TIMING Middle, Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE 700,000 good.
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Glacial origin in lower part; stream-cut in the upstream area. The valley is wide near the mouth and narrows progressively up each fork.
DRAINAGE 13.6 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION Enters the Stikine River from the S., about 5 miles upstream. The mouth of this stream is continually changing.
The stream itself enters what is locally known as Andrew Slough. The slough in turn enters the main Stikine about 0.2 mile below the entrance of the creek. There is a large, clear water slough area extending approximately 0.5 mile before one actually gets into the stream. There is a large island just upstream from the mouth and a small one just off the mouth.
ANCHORAGE Vessels with <3' of draft can navigate the Stikine River. Larger vessels should be left in Wrangell and a skiff taken up.
TRAILS AND SURVEY ROUTES When entering the Stikine River, use the S. channel. The mudflats at the mouth shift with every freshet. Therefore, directions should be obtained from boatmen in Wrangell. At moderate water levels, a river skiff can be taken upstream a good distance.
AERIAL SURVEY NOTES Aerial visibility is very good.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Andrew Creek has no intertidal zone

UPSTREAM

LENGTH 4 miles (W. fork). AVERAGE WIDTH/DEPTH 50'/18"-24"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, sand, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS 0.5 mile up the E. fork, a barrier is impassable to salmon.
TRIBUTARIES None.
SCHOOLING AREAS A large lagoon and clear water slough form the lower part of the stream. Good pool areas are found throughout this section.
SPAWNING AREAS Salmon spawn throughout the distance surveyed. Excellent spawning areas.
GENERAL NOTES This stream does not have a lake as its source, but it has a red run. Fair population of brown bear. Easily surveyed by foot due to wide streambed. This stream is an excellent pink stream.

ADF STAT. No.
WR 3-1

130-30 ANDREW CREEK Previous No. 5

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Aug 25	A 3.0	FRI	25,000					Run beginning
1953								
July 26	A							Poor
1954								
Aug 4	G	FWS			200			
Aug 15	A 0.5	FRI	>100	0	0	0	500 kings	Few chums
Sept 7	A 0.5	FRI	0	0	0	0		Run over
1955								
Aug 1	A 0.5	FRI	10,000	0	0	0	3,000-4,000 kings	
Aug 12	G 0.5	FWS	15,750	0	0	0	6 kings	3 dead kings, few dead pinks
Aug 15	G 1.0	FWS	10,000					Some chums
Aug 19	A 0.5	FRI	25,000	200			6,000 kings	Kings spawning
1956								
July 24	A 0.5	FRI						500 kings upstream
July 24		FWS	15		200			
July 28		FWS	20		30		20 kings	
July 28	A length	FWS	400		200		500 kings	Left fork
Aug 9	A length	FWS					500 kings	Right fork
Aug 14	A 6.0	FWS	400				4,000-5,000 kings	
Aug 30		FWS	3,500				2,500 other species	
Sept 2	A marker	FRI	>100					
Sept 4	A 3.0	FWS	>1,000					Right arm
Sept 13	A 3.0	FWS						None observed, both forks
1957								
July 29	G	FWS					1,000 kings	
July 30	A 8.0	FWS						18,400 unidentified fish
Aug 1	G	FWS	10,000		6,000		3,000 kings	
Aug 9	A 4.0	FWS	25,000					
Aug 9	A to falls	FWS	3,000					
Aug 15	G 1.5	FWS	1,000				1,000 reds	
Aug 15	G to falls	FWS					500 reds	
Aug 19	G 1.5	FWS	1,500		200			Right fork
Aug 19	G to falls	FWS	500				500 reds	Left fork
Sept 2	A marker	FRI	300	300				
1958								
July 11	G 0.3	FWS	2					Left fork
July 13	G 3.0	FWS			55		30 kings	
July 17	G 2.0	FWS	150		30			
July 17	A 3.0	FWS			30		5 kings	
July 26	G 2.0	FWS	150		5		150 kings	
July 28	G	FWS					500 kings	
July 29	G	FWS					200 kings	
Aug 8	G 2.0	FWS					2,500 kings	
Aug 8	A length	FWS	5,000		2,000		500 kings	
Aug 25	A length	FWS	200					
Aug 26	G 2.0	FWS	200		50		300 kings	1,000 dead salmon
Aug 26	A 0.5	FWS	200		0			
Aug 30	A length	FWS	3,000		100	400	175 kings	
Sept 17	A marker	FWS	200					400 schooled in intertidal

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1959								
July 18	G mouth	FWS	50				1 kings	
July 25	G 2.0	FWS	20,000					Pink in S. fork, none in N. fork
Aug 4	A 1.5	FWS	8,000	50				
Aug 10	A 4.0	FWS	26,000					
Aug 16	G 0.3	FWS			4,500		150 kings, 100 reds	
Aug 18	G 0.5	FWS	50				1 kings	Water high
Aug 16	G 0.2	FWS	3,000					Left fork
Aug 27	G 2.0	FWS	6,000				300 reds, 50 kings	
Sept 3	A 4.0	FWS	15,000					20% dead fish
1960								
July 17	A length	ADF	0	0	0	0	34 kings	No fish in E. fork
July 19	G 4.0	ADF	0	0	5	0	55 kings	
July 19	G length	ADF						No fish observed
July 31	A length	ADF	1,000	0	40	0	75 kings	
Aug 7	G 3.0	ADF	300	0	38	0	287 kings	
Aug 7	G length	ADF	100		30		30 kings	
1961								
July 21	A length	ADF	700		few		few kings	
July 23	A 4.0	ADF	800		200		17 kings	
Aug 1	G 2.0	ADF	7,800		100		103 kings	2,500 mixed at mouth
Aug 2	A length	ADF	13,400		500		few kings	
Aug 9	A length	ADF	8,500		2,000			
1962								
July 16	A mouth	ADF						No salmon observed
July 24	G falls	ADF						Few pinks, chums, kings
July 25	A length	ADF						Very few fish
July 30	A length	ADF					300 kings	
Aug 30	A length	ADF	900				12 kings	Few dead
1963								
July 29	A length	ADF	3,000					500 at mouth; 4,000 in left fork
Aug 16	A length	ADF	4,900				500 kings, 500 reds	Mixed
Aug 16	A length	ADF	14,000				500 kings, 500 reds	Mixed
Aug 17	G length	ADF	4,700		8		402 kings, 551 reds	

ADF STAT. No.
WR 3-2

130-30 NORTH ARM CREEK FWS No. 4
56°41.4' N. 132°19' W.

WRANGELL, CLARENCE STRAIT, STIKINE RIVER, 1 mile NE. of Farm I., N. shore.

MAJOR SPECIES Pink, chum. OTHER SPECIES King, coho.
ESCAPEMENT TIMING Middle.
SPAWNING FACILITIES Good.
STREAM TEMPERATURE
VALLEY DESCRIPTION
DRAINAGE Approximately 3 square miles.
STREAM MOUTH IDENTIFICATION Enters Stikine River approximately two miles N. of the combined entrances to North Arm and Eulachon Slough.
ANCHORAGE Use skiff out of Wrangell.
TRAILS AND SURVEY ROUTES No trails. Difficult to walk at high water stages.
AERIAL SURVEY NOTES Fair for aerial survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES No intertidal zone.

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles. AVERAGE WIDTH/DEPTH 40'/16".
GRADIENT AND VELOCITIES Moderate to 1.5 miles, then swift.
BOTTOM Sand, some boulders, and gravel.
MARKER DISTANCE None.
MARKER IDENTIFICATION
BARRIERS Falls in gorge at about 2 miles.
TRIBUTARIES None.
SCHOOLING AREAS Large lagoon at confluence with Stikine River and large pool about 100 yards upstream.
SPAWNING AREAS Throughout stream to the gorge.
GENERAL NOTES Quite a few brown bear inhabit this stream.

130-30

NORTH ARM CREEK

ADF STAT. No. WR 3-2
FWS No. 4

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1955								
July 24	G 0.5	FWS			100			A few pink
Aug 14	G 0.2	FWS	1,000		5		1 king	
Aug 15	A	FWS						No fish observed
1956								
July 24	G	FWS						No fish observed
Aug 14	A 1.2	FWS						8,000-10,000 fish seen
Sept 4	A 1.5	FWS	5,000-10,000		3,000	500		
Sept 13	A	FWS			15,000			
Sept 15	G 1.0	FWS	2,000	15,000	4	4,000		
Sept 5	G	FWS	20,000		19,000			Season estimate
1957								
July 19	G	FWS						Pinks and chums present
July 27	G	FWS						1,000 mixed salmon
July 28	G 0.2	FWS						2,000 in mouth
								3,000 in creek
July 29	G	FWS						5,000 at mouth
								3,000 in creek
July 30	G	FWS	8,000		15,000		500 kings	
July 30	A 5.0	FWS						7,000 salmon; 4,000 in first half mile
Aug 1	G	FWS	500		500		500 kings	
Aug 5	G 0.5	FWS	10,000		20,000		2,500 kings	
Aug 9	A	FWS	5,000		15,000			
Aug 9	A	FWS						75% spawning; 30,000 fish
Aug 21	G 0.5	FWS						2,000 pinks moving up
Aug 27	G	FWS	2,000					
Sept 2	A	FWS	300					
Oct 10	G 0.5	FWS					75 cohos	
1958								
	No record							
1959								
July 18	Mouth	FWS	50		100			
Aug 4	A 0.2	FWS	2,000					
Aug 10	A 1.0	FWS	5,500		200			
Aug 27	0.5	FWS	4,800		100			
1960								
July 19	G 1.0	ADF	5		43			
July 30	A length	ADF			700			1,200 mixed at mouth
Aug 7	G length	ADF	2,500		500			
Sept 8	G length	ADF	6,500	3,500	2			Pink old
1961								
July 23	A 1.5	ADF			500			
July 27	A 0.5	ADF						1,200 at mouth
Aug 1	G to rapids	ADF	100		200		38 kings	3,900 mixed at mouth
Aug 2	A length	ADF	200					3,000 at mouth
Aug 9	A length	ADF	5,000					
Aug 26	To canyon	ADF						23,000 mixed

NORTH ARM CREEK - Continued

ESCAPEMENT RECORD

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1962								
July 24	G 0.7	ADF			100		20 kings	3,000 mixed at mouth
July 25	A length	ADF			1,000			1,200 at mouth
July 30	A length	ADF			3,000			3,000-4,000 at mouth

ADF STAT. No.
WR 28

142-50 KUNK (KONKE) CREEK Previous No. 38

56°17.2' N. 132°23.6' W.

WRANGELL, ZIMOVIA STRAIT, W. of Nemo Point.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Middle. Aug.-Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION Short, stream-cut valley. The valley branches 0.5 mile upstream. Tributary valleys are divided by a steep ridge.
DRAINAGE 4.4 square miles. Drains Konke Lake which is 1.5 miles long and 0.5 mile wide.
STREAM MOUTH IDENTIFICATION
ANCHORAGE Temporary anchorage is found close into the mouth of the creek in 6 to 7 fathoms.
TRAILS AND SURVEY ROUTES A Forest Service trail follows the right side of the creek and lake. A shelter cabin is found at the end of the trail.
AERIAL SURVEY NOTES Poor for aerial survey due to heavy overstory.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 25'/10".
GRADIENT AND VELOCITIES Swift.
BOTTOM Large boulders.
LOW TIDE LOCATION Beginning of timber.
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile to lake. AVERAGE WIDTH/DEPTH 20'/12".
GRADIENT AND VELOCITIES
BOTTOM Small and large rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Several partial barriers throughout length.
TRIBUTARIES The stream forks 0.5 mile upstream and the S. fork goes to Konke Lake.
SCHOOLING AREAS
SPAWNING AREAS Only a limited amount of spawning area, the bottom being for the most part coarse gravel and rock. The lake has patches of good gravel, but no spawning tributaries.
GENERAL NOTES

ADF STAT. No.
WR 28

142-50 KUNK (KONKE) CREEK Previous No. 38

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1950								
Sept 10		FWS					300 reds, 150 cohos	
1951								
Sept 6	0.7	FWS	400		200		55 reds, 100 cohos	
1953								
July 6	G 1.5	FWS						No fish observed
Aug 3	G 1.5	FWS						Creek low, 40 jumps
Aug 6	G 1.5	FWS						Pink in mouth
1954								
Sept 16		FWS						No fish observed
1955								
Aug 2	G 0.2	FWS						No fish observed
1956								
Sept 8	G to lake	FWS						No fish observed
1957								
July 28	G length	FWS					2 reds	2 jumps off mouth
Aug 9	A mouth	FWS						No fish observed
1958								
Aug 14	G 0.5	FWS						No fish observed
Aug 23	G mouth	FWS						50 red jumps at mouth
1959								
Sept 10	G 0.5	FWS						No fish observed 200 pinks off mouth
1960								
	No surveys							
1961								
	No surveys							
1962								
July 30	A mouth	ADF	300		700			1,000 at mouth
Aug 7	A mouth	ADF						200-300 at mouth

ADF STAT. No.
142-40 WR 43
56°19.2' N. 132°32.8' W. Previous No. 57

WRANGELL, SUMNER STRAIT, STIKINE STRAIT, 2 miles SW. of NW. tip of Etolin I.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION Stream-cut. Near the mouth there are open muskeg areas a short distance from both streambanks.
DRAINAGE 9.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters into the SE. corner of a small bay. This is the first bay N. - NE. of Quiet Harbor.
ANCHORAGE The cove into which the creek enters offers protection for small craft from SE. weather.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Large stream, extremely rocky and swift.

AVERAGE WIDTH/DEPTH 75'/24".

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 11	A 0.5	FWS						No fish observed
1956								
Aug 15	A 0.7	FWS						No fish observed
1959								
Sept 4	G 0.5	FWS	64					
1960								
	No surveys							
1961								
	No surveys							

142-40
56°20.8' N. 132°41.2' W.

ADF STAT. No.
WR 44
Previous No. 58

WRANGELL, CLARENCE STRAIT, STIKINE STRAIT, METER BIGHT, 4 miles SW. of S. Craig Pt.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION Glacial origin. Large patches of open muskeg areas on both sides of the stream.
DRAINAGE 22.5 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION Heavily wooded near the mouth. Lies at the N end of the tidal flat into which WR 45 enters. Enters Meter Bight.
ANCHORAGE The bight offers poor anchorage because of the large tidal flat. Temporary anchorage is available in Deep or Fritter Coves to the N.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 65'/15".
GRADIENT AND VELOCITIES
BOTTOM Good gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 44

142-40 ESCAPEMENT RECORD Previous No. 58

[Counts made by ground surveys are designated by G; aerial survey by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 11	0.2	FWS	100					
1953								
Aug 11	A 0.5	FWS						Good stream but no fish observed
1955								
Aug 31	G 0.7	FWS	1,250					
1956								
Aug 15	A 1.0	FWS						No salmon observed
Sept 17	G 1.0	FWS	1,600					
1957								
Aug 15	A 2.0	FWS						No salmon observed
1958								
Aug 8	A 2.0	FWS						No salmon observed
Aug 28	G 0.2	FWS	500		100			
Sept 14	G 1.0	FWS	1,500	100				
Sept 19	A 2.0	FWS	2,500					
1959								
Aug 30	G 0.2	FWS	200					
1960								
	No surveys							
1961								
	No surveys							
1962								
July 25	A 2.0	ADF						No salmon observed

142-40
56°20.4' N. 132°40.7' W.

ADF STAT. No.
WR 45
Previous No. 59

WRANGELL. CLARENCE STRAIT, STIKINE STRAIT, METER BIGHT, 4.5 miles SW. of S. Craig Pt.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION The lower 2 miles of stream runs through a generally flat area with scattered patches of muskeg. Above this the valley lies between two mountain ridges.
DRAINAGE 6.5 square miles (polar planimeter). Precipitation-fed. Snowmelt from the surrounding snowfields and rainfall, along with muskeg drainage, feed this creek.
STREAM MOUTH IDENTIFICATION Enters the S. end of Meter Bight, about 400 yards from its S. point. This is the same flat into which WR 44 enters.
ANCHORAGE Refer to WR 44.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 50'/15".
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 45

142-40 ESCAPEMENT RECORD Previous No. 59

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 11	0.1	FWS	19	0				
1956								
Aug 15	A 0.5	FWS						No salmon observed
Sept 17	G 1.0	FWS						No salmon observed
1957								
Aug 15	A 2.0	FWS						No salmon observed
1958								
Sept 14	G 0.2	FWS	1					1 pink spawned out
Sept 19	A 0.5	FWS						No salmon observed
1959								
Aug 30	G 0.2	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

130-10
56°46.2' N. 132°47.9' W.

ADF STAT. No.
WR 50
Previous No. 66

WRANGELL, FREDERICK SOUND, 2 miles SE. of Frederick Pt.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 6.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE This shoreline offers no overnight anchorages, only temporary. Petersburg, about 8 miles NW., offers excellent facilities for moorage or anchoring.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM Boulder and bedrock, with little gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH 10'/10".

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 3	0.5	FWS	650	123	0	0		
1960	No surveys							
1961	No surveys							

ADF STAT. No.
WR 51
Previous No. 67

130-10
56°45.5' N. 132°46.7' W.

WRANGELL, FREDERICK SOUND, 3 miles SE. of Frederick Pt.

MAJOR SPECIES Pink. OTHER SPECIES
ESCAPEMENT TIMING Middle. Aug. -Sept. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the second bight S. of WR 50.
ANCHORAGE Refer to WR 50.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS A few good spawning areas are found within this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 10'/6".
GRADIENT AND VELOCITIES Swift.
BOTTOM Bedrock, boulders, and small rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1953								
Aug 11	A 0.5	FWS						No salmon noted in stream
1955								
July 26	G 0.2	FWS						100 off mouth
Aug 12	G 1.0	FWS						No salmon observed
Aug 26	G 1.0	FWS						Poor visibility - water high
Aug 30	G 1.0	FWS	700	0	0	0		
Sept 4	A 1.0	FWS						No salmon observed - poor visibility
1960								
	No surveys							
1961								
	No surveys							

HT
0.25 Mile

130-10 BIG CREEK ADF STAT. No. WR 52
56°42.1' N. 132°42.6' W. Previous No. 69

WRANGELL, FREDERICK SOUND, 8 miles SE. of Frederick Pt..

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. ESCAPEMENT MAGNITUDE Fair.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES
VALLEY DESCRIPTION Flat, muskeg valley.
DRAINAGE 23.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Lies at the head of a small bight W. of Coney Island.
ANCHORAGE Ideal Cove, 1.2 miles S. of Coney Island, furnishes good anchorage for small vessels. in 7 fathoms.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Water usually too dark for survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 80'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and bedrock.
LOW TIDE LOCATION Mudflats.
HIGH TIDE LOCATION
SCHOOLING AREAS Several pools.
SPAWNING AREAS A good spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 30'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders and gravel mixed with sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES
SCHOOLING AREAS Pools throughout length.
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WR 52

130-10 BIG CREEK Previous No. 69

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 3	1.0	FWS	3,230	153	11	6	2 reds	
1953								
Aug 11	A 0.5	FWS						Few salmon present
1954								
Sept 10	A 1.5	FWS	5,000					
Sept 12	G 7.0	FWS	1,000				Few cohos	
1955								
July 12	G 0.5	FWS						No evidence of salmon
Aug 19	A 0.5	FWS						No salmon observed
Sept 6	A 0.5	FWS						None observed
1956								
Aug 2-8	G	FWS						No salmon observed
Aug 9	G	FWS	100					
Aug 14	G 0.3	FWS	75					
Sept 3	G 1.0	FWS	1,500					
Sept 13	A 3.0	FWS	5,000					
Sept 20	A 3.0	FWS	2,000					
1957								
	No record							
1958								
Aug 8	A 2.0	FWS						No salmon observed
Aug 28	A 4.0	FWS						No salmon observed
1959								
Aug 3	G 0.2	FWS	30					
Aug 10	A 1.0	FWS	225					
Sept 3	G 0.5	FWS	35					
1960								
	No surveys							
1961								
	No surveys							

ADF STAT. No.
130-40 WR 53
56°37.4' N. 132°36.3' W. Previous No. 72

WRANGELL, FREDERICK SOUND, DRY STRAIT, 3.5 miles SE. of Cosmos Pt.

MAJOR SPECIES
ESCAPEMENT TIMING
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 5 square miles (Aerial).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

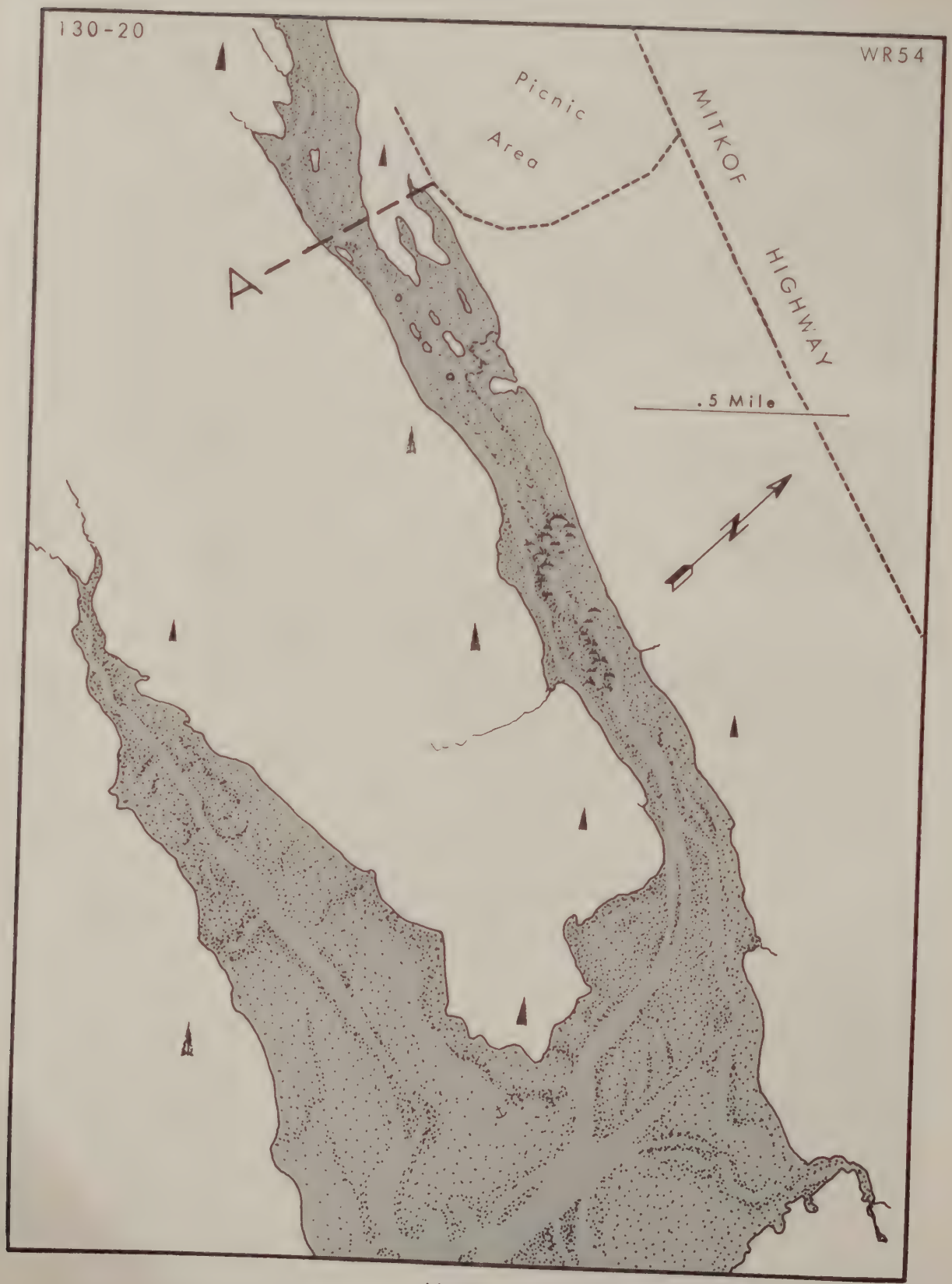
LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES Swift.
BOTTOM Boulders and bedrock with little spawning area.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

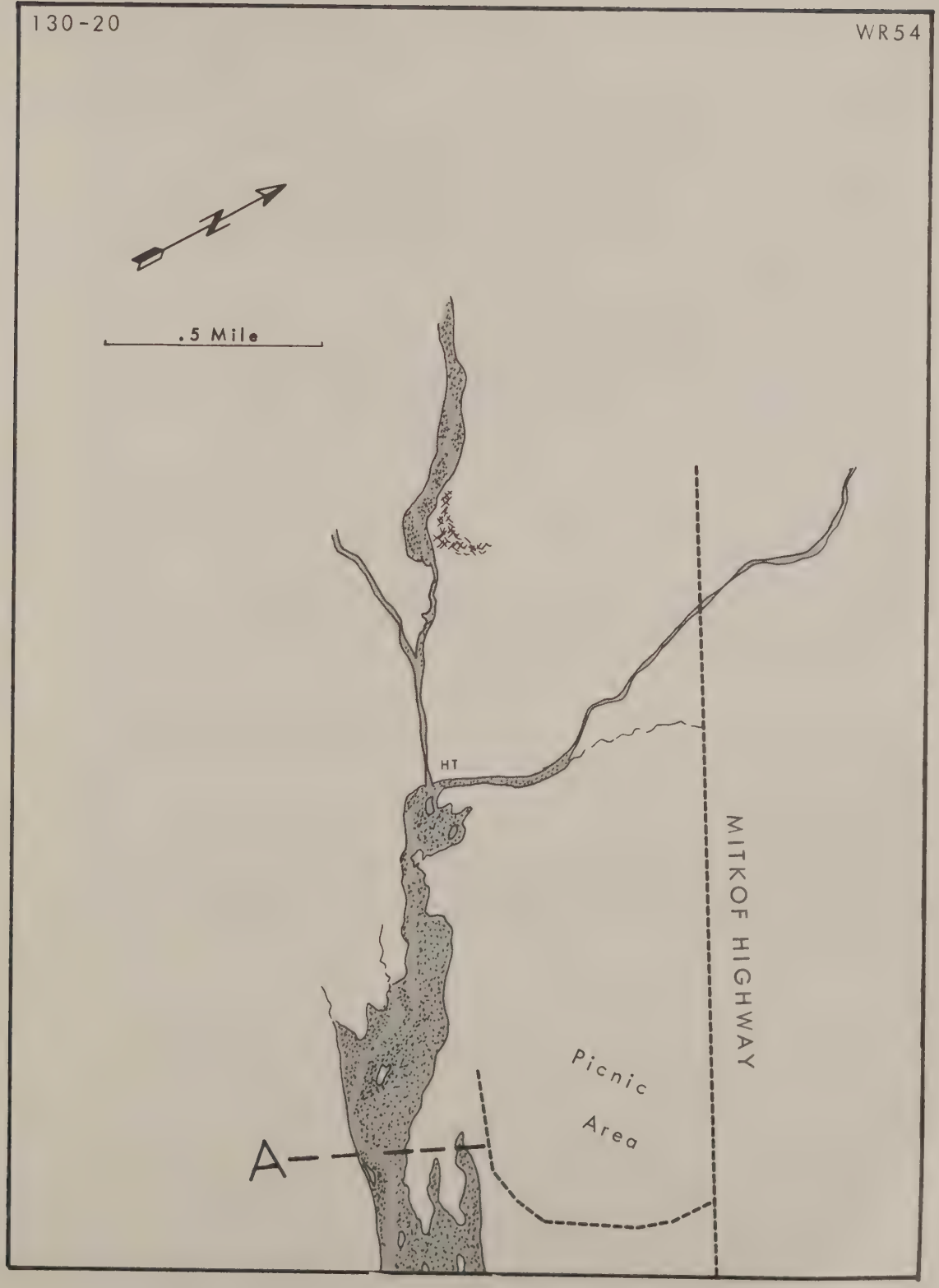
AVERAGE WIDTH/DEPTH 10'/6".

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1951								
Sept 4	0.2	FWS	300					
1953								
Aug 11	A 0.5	FWS						No salmon
1955								
Jul 12	G 0.5	FWS						No sign of salmon
Aug 19	A 0.5	FWS						No salmon
Sept 6	A 0.5	FWS						No salmon
1960								
	No surveys							
1961								
	No surveys							


130-20
WR54
Picnic
Area
MITKOF
HIGHWAY
A
A'
.5 Mile
N


N
.5 Mile
HT
MITKOF HIGHWAY
Picnic
Area
A

130-20
56° 35.2' N. 132° 44.5' W.

ADF STAT. No.
WR 54
Previous No. 73

WRANGELL, SUMNER STRAIT, BLIND SLOUGH, head of N. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Early. July-Aug.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES West fork - fair; east fork - good.
STREAM TEMPERATURES Cold range. Observed temperatures: 55.5° F., 8/13/50; 48° F., 9/8/50; 44° F., 9/30/50.
VALLEY DESCRIPTION
DRAINAGE 10 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream lies in the NE. corner of the slough and flows through a long grass-bordered tidal area.
ANCHORAGE The slough is very shallow and should be used only by small craft.
TRAILS AND SURVEY ROUTES Travel along the stream is easy at normal water levels. Leave skiff secured to the bank and follow the W. bank. Can be reached from Petersburg by road.
AERIAL SURVEY NOTES Dark water makes surveys impossible.

INTERTIDAL ZONE

LENGTH 1 mile.
AVERAGE WIDTH/DEPTH 30'/3".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Good gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Several holes are utilized throughout this zone.
SPAWNING AREAS Evidence of spawning has been observed in the upper one-fourth mile. The upper three-fourths mile appears well suited for spawning.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH 10'/3".
GRADIENT AND VELOCITIES Moderate.
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES The stream forks just above the high tide mark. The left fork is the most important.
SCHOOLING AREAS Holes and riffles occur alternately.
SPAWNING AREAS The right fork has good clean gravel for three-fourths mile; at this point larger rocks begin to show up and spawning facilities become poorer.
GENERAL NOTES

ADF STAT. No.
WR 54

130-20 ESCAPEMENT RECORD Previous No. 73

[Counts made by ground surveys are designated by G; aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS
1949								
Sept 11	G 0.7	FRI	2,455	315	2	10		Pink still in holes
1950								
Aug 13	G 0.7	FRI	293	0	742	12	2 reds	
Sept 8	G 0.7	FRI	29	5	0	0	94 cohos	
Sept 18		FWS	299				94 cohos	
Sept 30	G 0.7	FRI	0	0	0	0	165 cohos	
1953								
July 20	A 0.5	FWS						No salmon observed
Sept 8	A 0.5	FWS						Poor on pinks and chums
1954								
July 22	G mouth	FWS						Few chums in slough
Sept 10	A length	FWS						No salmon observed
1955								
July 9	A 0.5	FWS						No salmon observed
Sept 6	G 0.7	FWS	0	200	0	0		
1956								
Aug 7	bay	FWS						No salmon observed
Aug 30		FWS	20,000					
Sept 10	A length	FWS						No salmon observed
1957								
July 22	G mouth	FWS						No salmon observed
Aug 7	G 0.2	FWS			100			
1958								
Aug 8	A 1.0	FWS	200					
Aug 28	G 0.5	FWS	400		50			
Sept 11	G 0.5	FWS	250		50			
1959								
Aug 4	A 0.5	FWS						No salmon observed
Aug 15	G 0.5	FWS	100		20			
Sept 1	G 0.2	FWS						No salmon observed
1960								
	No surveys							
1961								
	No surveys							

MS #1468

GPO 989-184

Created in 1849, the Department of the Interior—America's Department of Natural Resources—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.